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Canada, Grain Commissioners, Board of

DEPARTMENT OF TRADE AND COMMERCE

OTTAWA, CANADA

Minister
RT. HON. C. D. HOWE, M.P.

Deputy Minister
M. W. MACKENZIE

ANNUAL REPORT

OF THE

Board of Grain Commissioners for Canada

FOR THE YEAR

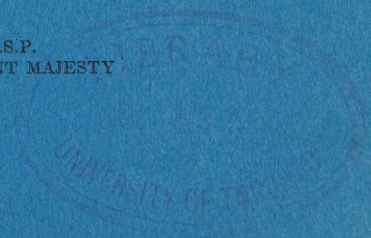
1950



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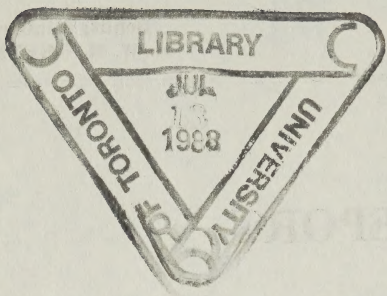
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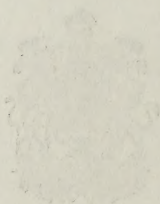
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BOARD OF GRAIN COMMISSIONERS FOR CANADA

WINNIPEG, MANITOBA,
January 26, 1951.

Right Honourable C. D. Howe, M.P.,
Minister of Trade and Commerce,
Ottawa, Canada.

SIR,—We beg to submit herewith the Annual Report of the Board of Grain Commissioners for Canada for the year 1950, in compliance with Section Twenty-three of The Canada Grain Act.

GENERAL CONDITIONS

Promising midsummer prospects of a near-record Canadian grain harvest in 1950 suffered a severe setback through heavy frost damage over many sections of the prairies in August and from relatively unfavourable harvesting conditions during the fall season which adversely affected both the yield and quality of the 1950 crop.

The wide disparity of average outturn estimates between Dominion Bureau of Statistics releases in August and November (indicated in brackets) reflects the rapid deterioration in crop outlook as the 1950 season advanced: Wheat, 544 (462); Oats, 433 (420); Barley, 184 (171); and Rye, 15 (13).

Although the area in Canada sown to wheat and rye during 1950 was down slightly from 1949, total production of these grains was estimated at figures substantially above the previous years. Increased yields for oats, barley and flaxseed on larger acreage raised production totals for 1950 to levels appreciably higher than for 1949. Crop volume outturn prospects for 1950, as indicated in the table below, considerably surpass the previous five-year average for all principal grains except flaxseed.

	1950		1949		5-year averages 1945-49	
	Acres	Production (Million Bushels)	Acres	Production (Million Bushels)	Acres	Production (Million Bushels)
Wheat.....	27.0	461.7	27.5	367.4	24.7	365.5
Oats.....	11.6	420.3	11.4	317.9	12.0	341.6
Barley.....	6.6	171.3	6.0	120.4	6.7	144.7
Rye.....	1.17	13.3	1.18	10.0	1.1	12.6
Flaxseed.....	.55	4.5	.32	2.3	1.1	9.3

Some indication of the quality loss of this year's crop may be gained through reference to car inspection data. During 1950, for the period August 1 to December 28 about 24% of all cars inspected were graded tough and damp, as against 3% last year for a comparable period.

1950 crop season car inspections up to the close of the calendar year also showed that straight grades of Hard Spring Wheat ranging from No. 1 to No. 3 Northern represented about 38% of total inspections in contrast with an 85% top wheat grade share of inspections in 1949.

At July 31, 1950, the total carry-over of wheat, oats, barley, rye and flaxseed in Canada amounted to 187,984,872 bushels, compared with 214,288,170 bushels the previous year.

Shipments of the five principal grains by vessel from the Lakehead during the 1950 season of navigation, reported at 203.2 million bushels, showed a

marked decline from the 1949 season volume (264.9 millions). Lakehead grain stocks at December 31, 1950, totalled 50.9 million bushels compared with 45.9 million bushels a year earlier.

Pacific Coast overseas clearances of grain for the crop year ended July 31, 1950, (62.6 million bushels), slightly exceeded shipments of the previous crop season (60.7 millions).

During the first five months of the current crop year shipments from the Pacific Coast amounted to 17.0 million bushels in contrast with the much heavier clearances for the same period in 1949 of 26.8 millions. Stocks at December 31, 1950, were 9.5 million bushels for all grains.

Record port clearances of 6,767,743 bushels were established at Churchill for the 1950 shipping season. Shipments during 1949 totalled 5,527,535 bushels. By December 31, 1950, Churchill stocks had been reduced to 460,556 bushels.

AMENDMENTS, CANADA GRAIN ACT

The Canada Grain Act was amended during the year 1950 by Chapter 24 of the Statutes of 1950. While this Act amended eleven (11) different sections and two schedules, the only change in principle was the restriction placed on operators of eastern and terminal elevators prohibiting them from receiving into such elevators, for storage in transit for reshipment out of Canada, any grain grown outside Canada except under authorization by a regulation or order of the Board, and giving to the Board power to make orders or regulations for this purpose to ensure that ample storage space be available for Canadian-grown grain.

The other changes were as follows:

- (1) Regulations of the Board to be published annually during August instead of between July 15 and August 15.
- (2) Prohibiting persons other than licensees using prescribed elevator tickets and receipts or other forms of contracts.
- (3) Authorizing the receipt of grain from railway cars at country elevators for milling or manufacture.
- (4) Board authorized to defer weigh-overs at eastern and terminal elevators from one crop year to the next crop year when it is not practical to carry out the weigh-over in the first crop year; provided, however, that the time elapsing between weigh-overs shall not be more than twenty-two months.
- (5) Clarification of section declaring all elevators to be works for the general advantage of Canada.
- (6) Two new grades of No. 3 and No. 4 Canada Western Mixed Grain and two new grades of No. 3 and No. 4 Canada Eastern Mixed Grain established in place of grades of No. 3 Canada Western and No. 3 Canada Eastern Mixed Grain respectively.
- (7) The words "including broken seeds" added under the heading "Degree of Soundness" in the specifications for the grades of Nos. 1 and 2 Canada Western and Nos. 1 and 2 Canada Eastern Flaxseed.
- (8) New specifications for the grades of Canada Eastern Pea Beans.

OVERAGES—COUNTRY ELEVATORS

In view of the results of the 1948-49 handlings at country elevators, which showed a net monetary loss to the operators as shown in the 1949 report of the Board, increased allowances to cover invisible loss and shrinkage in handling were authorized effective August 1, 1950, on all grains except oats and barley. The allowance on oats and barley remained at one-quarter of one per cent ($\frac{1}{4}\%$), but on the other grains the increases were as follows:

Wheat and Corn	—from $\frac{1}{4}$ of one per cent to $\frac{3}{4}$ of one per cent
Rye	—from $\frac{1}{4}$ of one per cent to $\frac{1}{2}$ of one per cent
Flax	—from one per cent to one and one-half per cent
Tough Rye	—from $\frac{3}{4}$ of one per cent to one per cent
Damp Rye	—from one per cent to one and one-half per cent

The results of the handlings for the crop year 1949-50 were slightly more favourable to the elevators. The total net overages were 307,380 bushels on handlings of 509,640,305 bushels, or approximately .06%, but, as in the previous year, the overages appeared only in oats and barley, with shortages in the higher-priced grains, wheat, rye, flax and corn.

Detailed results are as follows:

	1949-50	1948-49
Elevators reporting shortages.....	1,797	2,259
Elevators reporting neither shortages nor overages.....	120	52
Elevators reporting overages of less than .25%.....	2,440	2,239
Elevators reporting overages between .25% and .50%.....	456	466
Elevators reporting overages over .50%.....	123	116
Totals.....	4,936	5,132

INSPECTION OF GRAIN

While the major problem in grading the 1949 crop was occasioned by the large amount of broken kernels, the major problem in grading the 1950 crop arose out of the severity of the damage caused by heavy frosts before the grain was ready for harvesting, coupled with high moisture content owing to unfavourable weather conditions during the harvesting season.

The damage by frost was much more general than had been experienced for over twenty years, which resulted in dissatisfaction of the producers with the grades which they received. Resolutions and complaints submitted to the Board expressed dissatisfaction with the operation of the present grading system. Chief Commissioner McKenzie, Commissioner Vallance, Mr. A. F. Dollery, the Board's Chief Grain Inspector, and the Chief Chemist, Dr. J. A. Anderson, addressed meetings on this subject at country points. Statements setting forth the effect of frost damage on the milling and baking qualities of wheat were issued and given as much publicity as possible.

In all discussions on this matter the Board stressed that its Grain Inspection Branch had no option but to apply the grading specifications as laid down in The Canada Grain Act, and that to ensure that export shipments were equal in quality to the standards as set by the Standards Committee it was essential that this practice be followed.

DIRECT SHIPMENT OF GRAIN TO EASTERN CANADA

Following further protest against the ruling of the Board of April 11, 1949, the Board canvassed the different parties interested in the direct shipment of feed grains to Eastern Canada.

The expressions of opinion received by the Board were mostly in favour of the present procedure, and, therefore, the ruling that inspection service would not be given on cars billed to Eastern Canada direct from country points if the grain therein was loaded too high to permit of proper sampling, remains in effect.

STORAGE OF FOREIGN GRAIN IN TRANSHIPMENT FOR RESHIPMENT OUT OF CANADA

After the amendment of Section 133 of The Canada Grain Act prohibiting operators of terminal or eastern elevators from receiving into such elevators, for storage for reshipment out of Canada, any grain grown outside Canada unless authorized to do so by a regulation or order of the Board, the Board made a general regulation, No. 24, in this matter and instituted a system of permits authorizing the elevator operators to receive such grain when it appeared that the movement would not interfere unduly with the movement and storage of Canadian grain.

The operation of this control over the storage of foreign grain required the Board to keep in close touch with the Canadian Wheat Board as to its policy in utilizing storage space in eastern elevators during the fall movement. The delays to the harvest owing to inclement weather conditions resulted in a much-reduced movement from the Lakehead, so that the Board was able to permit appreciable amounts of United States grain to be moved through eastern elevators for reshipment ex Canada.

During the period July 15, 1950, to December 31, 1950, 19,073,892 bushels of United States grain were received into storage in eastern elevators while in transit for reshipment ex Canada, and of this amount 624,935 bushels remained in storage at December 31, 1950.

WEIGHING OF GRAIN

The unsatisfactory outturns of a small percentage of the cargoes of grain shipped from the Lakehead to elevators in the Eastern Division during 1950 continued to be a matter of concern to the Board, but with the closer supervision and checking put into effect, the situation in this matter has shown some improvement over 1949.

Effective April 1, 1950, two additional grain weighmasters were added to the staff of the Weighing Branch at the Lakehead in order to provide closer supervision of the Weighing of grain at terminal elevators.

The audit at a certain eastern elevator, at which outturns had been unsatisfactory, disclosed excessive overages. These overages were applied in settlement of claims for shortages on outturns.

ELEVATOR CHARGES

After considering the submissions made at public meetings held in Toronto, Vancouver and Winnipeg, the Board authorized, effective August 1, 1950, the following increases in the maximum tariffs of charges applicable at elevators licensed under the Canada Grain Act:

EASTERN ELEVATORS—Georgian Bay and Lower Lake Ports:

Elevation Charges

Grain for domestic use	from 1¼c. to 1½c. per bushel
Grain for export	from 1c. to 1¼c. per bushel

Lower St. Lawrence Group:

Elevation Charges

Receiving from canal or lake vessels	
Single-deck vessels	from \$8.00 to \$8.50 per thousand bushels
Receiving from railway cars	from \$8.00 to \$8.50 per thousand bushels

Storage Charge

Rate of 1/25th of one cent to apply the year round, with 15 days free storage on grain unloaded between January 1 and March 31

Upper St. Lawrence Group:

Elevation Charges

Receiving from vessels	
Single-deck vessels	from \$5.50 to \$6.25 per thousand bushels
Discharging to vessels	from \$3.75 to \$4.25 per thousand bushels

Atlantic Ports:

Elevation Charge	from 1.375c. to 1.425c. per bushel
------------------	------------------------------------

Storage Charge

Rate of 1/25th of one cent to apply the year round

TERMINAL ELEVATORS

General

Cleaning for removal of dockage (other than grain for which return is made)	
Rye containing less than 3% dockage	from no charge to ¼c. per bushel
Preparing cars for loading	from \$8.00 to \$10.00 per car when paper is used

In October, 1950, when it became apparent that large quantities of grain would have to be dried, terminal elevator operators applied to the Board for increases in the charges for drying on the grounds of increased costs of operating the driers. After due consideration by the Board the rates of 3 cents for drying tough and 5 cents for drying damp were increased as follows, effective November 3, 1950:

Drying

All grain except flax, sunflower seed and the malting grades of barley	
Tough	4½c. per bushel
Damp	7½c. per bushel
Flax and the malting grades of barley	
Tough	5c. per bushel
Damp	9c. per bushel
Sunflower seed	
Tough	10c. per hundred pounds
Damp	15c. per hundred pounds
Moist and Wet	20c. per hundred pounds

REGULATIONS OF THE BOARD

On July 28, 1950, the Board amended, effective August 1, 1950, the Regulations made under The Canada Grain Act by re-enacting the following regulations:

No. 16—Fees

No. 20—Maximum Tariff of Charges, Eastern Elevators

No. 21—Maximum Tariff of Charges and Shrinkage Allowances, Country Elevators

No. 22—Maximum Tariff of Charges, Terminal Elevators

On October 26, 1950, the Board made a new Regulation No. 24 entitled, "Receipt for Storage in Transit for Reshipment out of Canada of Grain Grown Outside Canada".

On November 3, 1950, the Board amended Regulation No. 22, Maximum Tariff of Charges, Terminal Elevators, to provide increased charges for drying of grain.

On December 14, 1950, the Board amended Regulation No. 15, Drying of Grain, to remove the restriction on drying temperatures for No. 6 Wheat and Feed Wheat to the close of the current crop year, July 31, 1951.

LAKE FREIGHT RATES

No changes have been made in the maximum rates for carrying grain by lake and river navigation during 1950. The maximum rates authorized by the Board's Order No. 18, dated October 13, 1948, are still in effect.

AUDIT OF STOCKS, TERMINAL AND EASTERN ELEVATORS

In accordance with the provisions of Sections 138 and 138 (a) of The Canada Grain Act, the grain contained in every terminal and eastern elevator was weighed over by the Board's Weighing Branch during the crop year ended July 31, 1950, with the exception of one Vancouver terminal damaged by fire, and the weigh-over of stocks contained in this terminal was deferred until such time as the equipment of the elevator could be restored.

At one semi-public terminal in the Western Division it appeared that the handling of grain had resulted in the transfer of grain from a lower to a higher non-mixing grade. The value of the excess disclosed in the amount of \$327.60 was paid to the Board by the licensee of this elevator.

ASSISTANT COMMISSIONERS

The promotion of Mr. John Rayner, Secretary to the Board, to the position of Assistant Commissioner for Manitoba, effective August 1, 1950, vice Mr. T. J. Harrison, resigned, permits the Board to now maintain that direct contact with producers and country elevator operators in the three Prairie Provinces which is so essential to the efficient administration of The Canada Grain Act.

Actual complaints from producers totalled 17 during the year: 6 in Alberta, 8 in Saskatchewan and 3 in Manitoba. Country elevator inspections totalled 1,019 in Alberta, 682 in Saskatchewan and 11 in Manitoba.

The Assistant Commissioners were also of assistance to the Board in handling problems relating to the grading of grain and the supplying of railway cars.

CANADIAN GOVERNMENT ELEVATORS

The amount of grain handled at the Canadian Government Elevators during the crop year ended July 31, 1950, was comparable to that handled in the previous crop year. Ample storage space being available at the Lakehead and at Pacific ports, there was no demand for storage at interior points.

Of the total handling at the Canadian Government Elevators, amounting to 3,021,205 bushels, 2,480,118 bushels were handled at the Calgary Elevator. The greater proportion of this grain was barley. The Edmonton Elevator handled 423,129 bushels, but the handlings at the other Elevators at Moose Jaw, Saskatoon and Lethbridge were negligible. No grain was handled at the Prince Rupert Elevator.

The Port Arthur Elevator continues to be operated by McCabe Grain Company, Limited, under lease which expires July 31, 1954.

The net result of operations for the fiscal year ended March 31, 1950, was a deficit of \$218,499.43, as compared with a deficit of \$222,565.11 in the previous fiscal year.

The installation of dust control equipment at the Port Arthur and Edmonton Elevators has been completed, as well as other structural changes to reduce risks of fire and explosion. Installation of dust control equipment at Calgary is now practically complete.

During the current crop year substantial quantities of grain have been delivered to the Saskatoon and Moose Jaw Elevators, and at December 28, 1950, there were in store at Saskatoon 4,245,000 bushels and at Moose Jaw 2,412,000 bushels.

COMMITTEES ON GRAIN STANDARDS

Committees on Grains Standards for the crop year 1950-51 were constituted by the Board in accordance with the provisions of Section 25 of The Canada Grain Act. The Western Committee was convened in Winnipeg on September 28, 1950, and reconvened on October 24, 1950. The Eastern Committee convened at Toronto on August 15 and November 17, 1950.

WHEAT BONUS

No Wheat Bonus certificates were redeemed during 1950. Certificates still outstanding as at December 31, 1950, amount to \$7,746.33.

PRAIRIE FARM ASSISTANCE ACT

The Board has continued to collect one per cent of the purchase price of grain marketed in the three Western Provinces. During the crop year ended July 31, 1950, \$8,397,054.78 was collected, making total collections of \$48,055,-353 41 since the inception of this scheme on August 1, 1939.

EXHIBIT AT BRANDON WINTER FAIR

The Board again provided an exhibit at the Manitoba Winter Fair held in Brandon, Manitoba, in April, 1950. This exhibit stressed the work of the Board's Grain Inspection Branch. It attracted wide interest and brought forth much favourable comment.

PERSONNEL

Under the terms of Order in Council P.C. 3739 dated August 2, 1950, Mr. John Rayner has been appointed Assistant Commissioner for the Province of Manitoba. Mr. Rayner has served continuously since February 7, 1924, having been appointed Deputy Inspector on October 1, 1926, and Secretary of the Board on July 11, 1930.

Mr. Arnold Truman Calder has been appointed Secretary of the Board with effect from October 25, 1950. Mr. Calder acted in the capacity of Chief Statistician for the Board prior to his appointment as Secretary.

Mr. Frederick Gilbert Stevens, Grain Weighmaster at Winnipeg, proceeded on six months' retiring leave September 1, 1949, retired March 1, 1950, after 38 years' service with the Board's Weighing Branch. Mr. Stevens was succeeded by Mr. James Spence Robertson, whose appointment was dated August 1, 1950. It is with sincere regret that Mr. Robertson's death on January 3, 1951, is reported.

The establishment of the Board's Weighing Branch at the Head of the Lakes has been increased by the addition of two positions of Grain Weighmaster. These positions were filled on July 1, 1950, by the appointment of Mr. Albert Thwaites Owen, who has served continuously since September 8, 1915, and William Thomas Sparks, who has served continuously since September 15, 1920.

Mr. Stanley Gifford Thompson, Grain Inspector Grade 4, Vancouver, who retired March 1, 1950, has been replaced by Mr. Hector McArthur, Grain Inspector Grade 3, Vancouver.

GOVERNMENT GRAIN MISSION

During the last three months of 1950 Commissioner Milner represented the Board of Grain Commissioners on a Government Mission to Europe, with a view to developing closer contacts with governments and the grain and milling trade.

EXPENDITURE AND REVENUE

Total expenditure for the fiscal year 1949-50, exclusive of the Canadian Government Elevators, was \$2,370,862.89, compared with \$2,218,254.82 for the previous fiscal year, an increase of \$152,608.07, mainly attributable to increased salary rates.

Revenue amounted to \$1,951,223.89, an increase of \$654,467.67 from the revenue of \$1,296,756.22 in the previous fiscal year.

Total expenditure for the first nine months of the current fiscal year is \$1,789,784.00, being \$17,181.68 in excess of the expenditure for the same period in the previous fiscal year. Revenue for this period totals \$1,564,777.22 as compared with \$1,719,805.27 for the same period in the 1949-50 fiscal year.

Reports of the various branches of the Board are attached for your information.

Respectfully submitted,

D. G. McKENZIE,
Chief Commissioner.

J. VALLANCE,
Commissioner.

R. W. MILNER,
Commissioner.

APPENDIX No. 1

REPORT OF THE SECRETARY

WINNIPEG, MANITOBA,

January 22, 1951.

The Chief Commissioner,

Board of Grain Commissioners for Canada,

Winnipeg, Manitoba.

DEAR SIR,—I have the honour to submit the following memoranda summarizing the different matters handled in the Executive Offices of the Board during the year 1950:

- (a) Complaints
- (b) Prosecutions
- (c) Defaults
- (d) Cars out of turn
- (e) Receipt of wheat into country elevators from railway cars
- (f) Report of Licensing Officer
- (g) Licences issued
- (h) Grain-loading platforms
- (i) Prairie Farm Assistance Act—One Per cent Levy
- (j) Statistics
- (k) Annual Weighover—Terminal Elevators

Yours truly,

A. T. CALDER,

Secretary.

(a) COMPLAINTS

COUNTRY COMPLAINTS

During the year ended December 31, 1950, the Board investigated twenty (20) complaints, including three outstanding as at December 31, 1949, regarding the handling of grain at country elevators, shipments to terminal elevators, and the operations of licensees under The Canada Grain Act, as follows:

Manitoba.....	3
Saskatchewan.....	8
Alberta.....	6
Outstanding at December 31, 1949.....	3
	— 20

These were disposed of as follows:

No grounds for complaint.....	8
Settlement effected.....	5
Outside jurisdiction of Board.....	1
Licensee fined.....	1
Licensee warned.....	1
Complaint withdrawn.....	1
Not yet disposed of.....	3
	— 20

MISCELLANEOUS COMPLAINTS

Forty-two (42) complaints were received by the Board in respect to the handling of grain at terminal elevators and shipments to Eastern Canada, together with nine (9) complaints outstanding at December 31, 1949. These were disposed of as follows:

	Quality	Shortage	General
No evidence.....	1	31	—
Settlement effected.....	—	5	—
Outside jurisdiction of Board.....	—	—	—
Not yet disposed of.....	—	14	—
			51

EXPORT SHIPMENTS

Sixteen (16) complaints in respect to overseas shipments were received during the year ending December 31, 1950. These, together with five (5) complaints outstanding at December 31, 1949, were disposed of as follows:

	Quality	Shortage
No evidence.....	3	10
Settlement effected.....	—	4
Not yet disposed of.....	—	4
		21

(b) PROSECUTIONS

One prosecution for a breach of the provisions of Section 109 of The Canada Grain Act was instituted against the agent of a country elevator licensee and the defendant was fined \$20.00 and costs.

(c) DEFAULTS

There were no defaults by licensees during the year 1950.

(d) CARS OUT OF TURN

During the year 1950 eighty-four (84) out-of-turn cars were ordered by the Board under the provisions of Section 68 (2) of The Canada Grain Act, as follows:

Grain out of condition.....	39
Elevators in danger of collapse.....	45
	84

(e) RECEIPT OF WHEAT INTO COUNTRY ELEVATORS
FROM RAILWAY CARS

Under the provisions of Section 107 (a) of The Canada Grain Act the Board authorized the receipt of wheat from railway cars into country elevators in a total of 777 cars.

(f) REPORT OF LICENSE AND BONDING BRANCH

The Secretary,
Board of Grain Commissioners,
Winnipeg, Manitoba.

DEAR SIR,—I have the honour to submit the following report of the License and Bonding Branch for the year 1950.

During the crop year which commenced on August 1, 1949, and ended on July 31, 1950, one hundred and thirty-one (131) firms and individuals applied for licences as required by the provisions of The Canada Grain Act.

Five thousand, three hundred and seventeen (5,317) applications for licences to operate were received and five thousand, three hundred and one (5,301) licences were issued. Five (5) licences were transferred and eleven (11) applications were withdrawn for various reasons.

APPLICATIONS RECEIVED AND LICENCES ISSUED

Kind	Applications		Licences	
	Received	Withdrawn	Issued	Transferred
Track Buyers.....	25		25	
Commission Merchants.....	31		31	
Grain Dealers.....	15	2	13	
Public Terminal Elevators.....	6		6	
Semi-Public Terminal Elevators.....	34	1	33	
Private Terminal Elevators.....	7		7	
Eastern Elevators.....	29		29	
Mill Elevators.....	38	1	37	
Private Country Elevators.....	9		9	
Public Country Elevators.....	5,118	7	5,111	
Transfers.....	5			5
	5,317	11	5,301	5

The total licensed storage capacity as at July 31, 1950, was 492,257,970 bushels; elevators proper and permanent annexes comprising 421,624,020 bushels and temporary annexes 70,633,950 bushels; 5,218 elevators being licensed at that date.

Thirteen public country elevator licences were cancelled by the Board during the 1949-50 crop year; three due to the fact that the licensees ceased operations, four because the elevators were demolished, and six for the reason that the buildings were not operated, the licences having been applied for in error.

Four (4) licences were suspended by the Board during the crop year 1949-50. Of these, three were suspended because of repairs being necessary at licensed elevators but were reinstated in due course after the buildings had been repaired, and one on account of a defective receiving scale.

Licence fees collected during the crop year 1949-50 amounted to \$28,085.00; of this amount, \$75.00 was refunded to applicants who withdrew applications for licences and \$24.00 on account of licences cancelled as from date of issue.

The collections of the one per centum levy made under the provisions of The Prairie Farm Assistance Act for the crop year 1949-50, as recorded at this office, were \$8,397,054.78. The total collections from August 1, 1939, to July 31, 1950, amounted to \$48,055,353.41.

Guarantee bonds in the amount of \$26,287,686.50, executed by seventeen (17) of the approved surety companies, were deposited with the Board as security under Section 79 of The Canada Grain Act to cover the operations of the licensees during the crop year 1949-50. In addition, six (6) licensees deposited negotiable Government bonds with a par value of \$25,500.00 in lieu of furnishing the usual forms of surety bonds.

During the first four months of the 1950-51 crop year, which commenced on August 1, 1950, 5,633 applications for licences of all classes were received and 5,502 licences issued.

At December 1, 1950, there were 5,598 buildings classed as elevators under the provisions of The Canada Grain Act, 5,568 in the Western Division and 30 in the Eastern Division, 5,432 being licensed at that date. These buildings and

their storage capacities, together with several summarizing statements and other relative information, are listed in the publication entitled "List of Grain Elevators in the Western and Eastern Divisions".

The total licensed storage capacity as at December 1, 1950, was 506,230,470 bushels, permanent storage space amounting to 434,996,820 and temporary storage 71,233,650. One hundred and sixty-six unlicensed elevators, with a combined storage capacity of 13,950,300 were not being used for the handling of grain at that date.

The one per centum levy collected during the first three months of the 1950-51 crop year amounted to \$1,961,192.89, the total collected since August 1, 1939, to December 1, 1950, being \$50,016,546.30.

Respectfully submitted,

C. F. SPITTLE,
Licensing Officer.

(g) STATEMENT SHOWING THE NUMBER AND KIND OF LICENCES ISSUED, AT FIVE-YEAR INTERVALS, SINCE 1890, AS AT DECEMBER 1ST EACH SEASON

Kind	1950-1951	1945-1946	1940-1941	1935-1936	1930-1931	1925-1926	1920-1921	1915-1916	1910-1911	1905-1906	1900-1901	1895-1896	1890-1891
Public Country Elevators.....	5,111	5,470	5,614	5,528	5,500	4,236							
Private Country Elevators.....	9	7	6	12	385								
Mill Elevators.....	37	39	38	19	25	10	13,704	13,013	11,901	11,100	1509	1377	†193
Public Terminal Elevators.....	6	6	6	6	8	21	12	13					
Semi-Public Terminal Elevators.....	33	37	39	38	35				*39	*9	*5	*5	*3
Private Terminal Elevators.....	7	8	10	36	40	64	25	19					
Eastern Elevators.....	29	30	31	31	29	17	11	18					
Track Buyers.....	25	27	33	41	48	95	143	195	128				
Commission Merchants.....	31	36	39	51	57	94	117	111	75				
Grain Dealers.....	13	11	21	24	3	3	2						
Total Number Issued.....	5,301	5,671	5,837	5,786	6,130	4,540	4,014	3,369	2,143	1,109	514	382	196

* Known as "Terminal Elevators".

† Known as "Country Elevators".

(h) GRAIN-LOADING PLATFORMS

During the year 1950 no applications for the building of grain-loading platforms or the enlargement of existing ones were made to the Board.

SUMMARIZED STATEMENT OF GRAIN-LOADING PLATFORMS IN WESTERN CANADA
as at December 1, 1950

Province	Number of Platforms	Car Capacity
Manitoba.....	588	1,380
Saskatchewan.....	1,262	2,683
Alberta.....	721	1,426
British Columbia.....	34	77
Ontario.....	20	41
Total as at December 1, 1950.....	2,625	5,607

(i) THE PRAIRIE FARM ASSISTANCE ACT, 1939

ONE PERCENTUM LEVY

Amounts Collected on Grain Purchased During Period August 1, 1949, to July 31, 1950

PROVINCE	WHEAT		OATS		BARLEY		RYE		TOTAL LEVY
	Bushels	Levy	Bushels	Levy	Bushels	Levy	Bushels	Levy	
		\$ c.		\$ c.		\$ c.		\$ c.	\$ c.
Manitoba.....	46,280,429	1,074,566 40	19,128,363	99,464 10	21,368,031	171,490 45	841,426	10,139 12	1,355,660 07
Saskatchewan....	176,119,004	4,096,307 19	44,371,278	218,758 58	19,149,551	141,846 92	5,642,167	68,716 10	4,525,628 79
Alberta.....	97,987,289	2,295,793 41	18,334,470	87,134 30	13,260,800	92,718 26	3,255,805	39,922 31	2,515,568 28
	320,386,722	7,466,667 00	81,834,111	405,356 98	53,778,382	406,055 63	9,739,398	118,777 53	8,396,857 14
Mixed Grain.....									\$ c. None
Adjustments not allocated.....									197 64
Collections—August 1, 1949 to July 31, 1950.....									8,397,054 78
Collections—August 1, 1939 to July 31, 1949.....									39,658,298 63
Total Collections to July 31, 1950.....									48,055,353 41

(j) STATISTICS

308 GRAIN EXCHANGE BLDG.,
FORT WILLIAM, ONT.,
January 22, 1951.

MR. A. T. CALDER, Secretary,
Board of Grain Commissioners,
Winnipeg, Man.

DEAR SIR,—I have the honour to submit the following report for the Statistics Branch for the 1949-50 Crop Year.

The 1950 Canadian Wheat Crop has been estimated at 461·7 million bushels by the Dominion Bureau of Statistics with the revised 1949 Wheat outturn for all Canada now established at 367·4 millions.

Extremely adverse weather conditions reduced the 1950 crop from a preliminary estimate on August 15th of 544 millions, which would have been the third largest crop on record, to the November 16th figure quoted above. If realized the 1950 crop will still represent the heaviest production since 1942 (556.7 millions) and will exceed by nearly 100 millions the average for the previous five seasons (366.7 millions).

Canadian coarse grain and flaxseed production in 1950 and 1949 has been estimated as follows, with 1949 out-turns shown in brackets: oats 420.3 (317.9), barley 171.3 (120.4), rye 13.3 (10.0) and flaxseed 4.5 (2.3) million bushels.

Increased Canadian wheat stocks of 102.4 millions were carried over into the 1949-50 season, compensating for the lighter 1949 out-turn (367.4 millions), and making available a total of 469.8 million bushels, approximately the same as the previous year's supplies. At the close of the season, this stock pile had been reduced by exports and domestic use to 113.2 million bushels on farms and in visible positions.

The July 31st, 1950, carryover of Canadian coarse grains and flaxseed was estimated as follows, with returns for the previous year shown in brackets: oats 44.3 (60.5), barley 20.4 (29.7), rye 6.6 (11.9) and flaxseed 4.5 (10.7) million bushels.

More detailed production, distribution, and carryover statistics may be found in tables appended to this report.

FARM DELIVERIES

Western farm wheat deliveries for the 1949-50 crop season, amounting to 319.6 million bushels, were increased in volume over both the marketings of the previous season (294 millions) and the average for the years 1944-45 to 1948-49 (293 millions).

WESTERN FARM WHEAT DELIVERIES SEASON 1949-50

—	Manitoba	Saskatchewan	Alberta and British Columbia	Total Deliveries		
				1949-50	1948-49	5-year Average 1944-45 to 1948-49
	net bu.	net bu.	net bu.	net bu.	net bu.	net bu.
Delivered to:						
Country Elevators.....	45,543,222	173,746,450	97,576,054	316,865,726	291,076,893	289,618,737
Interior Private and Mill Elevators.....	366,826	657,047	1,285,635	2,309,508	2,541,322	2,666,526
Interior Terminal Elevators (Street Receipts).....			12,257	12,257	29,805	9,561
Loaded over Platforms..	153,123	52,501	153,958	359,582	313,202	475,308
From farms direct to U.S.A. by Truck ¹	7,212	16,405		23,617	25,548	7,902
Total.....	46,070,383	174,472,403	99,027,904	319,570,690	293,986,770	292,778,034
Production (Gross).....	57,000,000	183,000,000	100,889,000	340,889,000 ³	365,459,000 ³	354,177,600 ³
Percentage — Deliveries to Production ²	83.47	98.46	101.37	96.81	82.51	84.75

¹Dominion Bureau of Statistics—Customs Clearance.

²Calculated on a net production basis.

³Includes production figures for British Columbia.

LAKE TRANSPORTATION

The S.S. "Renvoyle" arrived at the Lakehead at 10:50 a.m. April 29th, 1950, to open the season of navigation at the Head of the Lakes. This date represented one of the latest openings in recent years, although still in advance of the May 5th date (1923 and 1936) recorded as the latest opening on record. The last outbound grain boat for the season, the S.S. "Ashcroft" completed the loading of her cargo on December 14th, 1950.

Vessel clearances from the Twin Cities during the 1950 season of navigation totalled 203·2 million bushels for the five principal grains compared to lake shipments last year—264·9 millions, the previous five-year average vessel grain traffic—293 millions, and the record lake movement in 1945 of 483·7 million bushels.

Lake wheat cargoes during the current season of navigation amounted to 137·7 million bushels representing a decline from 1949 of approximately 26·5 millions. During the record season of 1945, a total of 344·4 million bushels of wheat were carried by lake vessels from Fort William—Port Arthur, but over the past five years, wheat shipments have fluctuated around a norm of 191·4 million bushels.

Combined lake and rail shipments from Fort William—Port Arthur terminals for the 1949-50 crop year totalled 288·3 million bushels, of which 34·6 millions moved eastward by rail.

FREIGHT RATES

The current season of navigation opened with lake freight rates on the movement of wheat ex lakehead terminals ruling 4·5c. to 12·5c. per bushel over the Georgian Bay to Lower St. Lawrence ports range, unchanged from charges prevailing during 1949, and remained at that level throughout the 1950 season.

WEIGHTED MONTHLY AVERAGE OF LAKE FREIGHT RATES FOR WHEAT CARGOES SEASON OF NAVIGATION—1950

Fort William—Port Arthur to	Georgian Bay Ports	Port Colborne and Humber- stone	Toronto	Kingston	Prescott	St. Lawrence Ports Direct
	c. per bu.	c. per bu.	c. per bu.	c. per bu.	c. per bu.	c. per bu.
<i>Month—</i>						
May.....	4·5	6·0	6·5	7·0	7·25	12·5
June.....	4·5	6·0	6·5	.....	7·25	12·5
July.....	4·5	6·0	6·5	.....	7·25	12·5
August.....	4·5	6·0	6·5	.....	7·25	12·5
September.....	4·5	6·0	6·5	.....	7·25	12·5
October.....	4·5	6·0	6·5	.....	7·25	12·5
November.....	4·5	6·0	6·5	.....	.....	12·5
December.....	4·5	6·0	.....	.....	.....	.....
<i>Season Averages—</i>						
1950.....	4·5	6·0	6·5	7·0	7·25	12·5
1949.....	4·5	6·0	6·5	.....	7·25	12·5

The rate on wheat cargoes to Buffalo for the season (8·8c. Canadian) reflected a 2·2c. advance over the weighted average rate for 1949. Lowest individual cargo rate (7·18c. Canadian) was reported on several shipments during May, June and July, while one vessel was chartered during December for Buffalo spot unloading at 15c. Canadian.

Wheat freight charges to Duluth during the last four months of the season were quoted at 5·5, 5, 5 and 6, and 5 and 8c. respectively. Single cargoes exclusive of winter storage cleared for Detroit in July, November and December at 5c., 9c. and 11c. in those respective months.

A special historical study was made during the year of the major cost items involved in the movement of Canadian wheat from a representative prairie midpoint to the United Kingdom via St. Lawrence and Pacific Coast ports over the years 1933 to 1950.

INLAND WATER FREIGHT RATES ACT

In accordance with provisions of the "Inland Water Freight Rates Act 1923" as amended, copies of vessel charter confirmations for all lake grain cargoes shipped from the lakehead during the 1950 season of navigation were filed by shippers with this office.

Monthly statements of weighted lake freight rate averages have been prepared from charter confirmation returns for release to those interested in these statistics.

EXPORT CLEARANCES

Canadian wheat and wheat flour exports for the 1949-50 crop year, amounting to 225.1 millions were 7.2 millions lighter than foreign shipments during the previous season (232.3 millions) and 45.5 millions below the average clearances over the five-year period 1944-45 to 1948-49.

United States imports of Canadian wheat for domestic use or for milling in bond (13.5 millions) were more than double the 5.3 million bushels moved in 1948-49.

Canadian wheat flour exports amounting to 45.7 million bushels (wheat equivalent) reflected a 2.4 million bushel decline from last year's returns and were substantially below the 62.7 million bushel average level established over the previous five-year period.

Canadian Atlantic Seaboard Ports handled approximately 59% of the total ocean wheat tonnage for the 1949-50 crop season while vessel cargoes from Canadian Pacific ports accounted for 36.9 percent of the total traffic. The Port of Churchill exceeded the previous record by loading out 5.5 million bushels, which represented about 3.3% of total Canadian overseas wheat cargoes. Export shipments clearing from United States Atlantic ports dropped to the lowest point in thirty years (143,443 bushels).

Further Canadian grain export data are contained in tables appearing in the Appendix to this report.

INSURANCE

Insurance policies on in-store grain have been filed by public country, semi-public and eastern elevators with this office as provided under Section 102 of the Canada Grain Act 1930, as amended, and related Orders-in-Council and regulations. Certified policy copies or certified listings of approximately 1,200 policies have been examined in reviewing the details of 140 individual units of risk.

PRICES

In compliance with Section 21 of the Canada Grain Act 1930, as amended, grain price records for the principal grain markets were maintained and weekly, monthly and annual statements covering price statistics of interest to the Trade have been released throughout the year.

ANNUAL WEIGH-UP

All audit statements required in connection with the weigh-up during the year of grain in Terminal and Eastern elevators by the Inspection and Weighing Departments of the Board under authority of Section 138 and 138A of the Canada Grain Act 1930, as amended, have been compiled and submitted to the Board.

GENERAL

The major staff change during the year was the transfer of the Chief Statistician to the post of Secretary to the Board.

In continuation of the study of the clerical functions of Lakehead Branches commenced in 1949, an office procedure analysis was completed with respect to the Statistics Branch, and the initial steps taken to extend this review to other Board offices in Fort William.

Respectfully submitted,

E. E. BAXTER,
Statistician.

CARRY-OVER OF CANADIAN WHEAT—JULY 31, IN BUSHELS

	1948	1949*	1950
	bu.	bu.	bu.
On Farms—Estimated.....	39,162,000	43,423,000	12,389,000
In Country, Private Terminals and Mill Elevators.....	16,710,908	18,841,225	28,520,704
In Public and Semi-Public Elevators.....	9,914,422	10,156,932	29,968,821
In Store and Afloat Eastern Elevators.....	6,284,943	20,735,093	31,419,680
In Eastern Flour Mills.....	1,543,124	2,764,454	1,602,485
In Transit Rail—East and West.....	4,060,361	6,422,043	8,298,853
In Store and In Transit in the United States.....	34,652	68,494	.....
Total.....	77,710,410	102,411,241	112,199,543

Crops of 1949 and Disposition	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Carry-over 31 July, 1949.....	102,411,241	60,506,604	29,669,143	11,917,893	10,692,153
Production—All Canada.....	367,406,000	317,916,000	120,408,000	10,011,000	2,284,000
Total Available Supply.....	469,817,241	378,422,604	150,077,143	21,928,893	12,976,153
Total Disposed of.....	357,617,698	333,518,025	129,722,108	15,497,808	8,508,382
Carry-over 31 July, 1950.....	112,199,543	44,904,579	20,355,035	6,431,085	4,467,771
Total.....	469,817,241	378,422,604	150,077,143	21,928,893	12,976,153

EXPORTS

1949-50.....	179,456,880	19,142,629	17,523,406	9,954,111	3,033,825
Wheatflour, Oatmeal, etc., equivalent to.....	45,679,905	1,403,909	.....	.....	.....
Total.....	225,136,785	20,546,538	17,523,406	9,954,111	3,033,825
1948-49.....	184,235,311	21,427,004	21,729,804	10,239,210	4,413,049
Wheatflour, Oatmeal, etc., equivalent to.....	48,094,024	1,792,630	.....	.....	.....
Total.....	232,329,335	23,219,634	21,729,804	10,239,210	4,413,049

* Revised.

SUMMARY OF PRODUCTION OF GRAIN IN WESTERN CANADA IN 1949, PRIMARY
MARKETINGS BY PRODUCERS AND TOTAL INSPECTIONS,
CROP YEAR 1949-50

(a) PRODUCTION

—	Wheat (All Varieties)	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Manitoba.....	57,000,000	53,000,000	40,000,000	750,000	1,100,000
Saskatchewan.....	183,000,000	85,000,000	33,000,000	4,400,000	650,000
Alberta and British Columbia	100,889,000	56,195,000	36,494,000	2,414,000	338,000
Total.....	340,889,000	194,195,000	109,494,000	7,564,000	2,088,000

(b) PRIMARY MARKETINGS—At COUNTRY ELEVATORS

Manitoba.....	45,543,222	18,971,811	20,979,105	778,775	804,743
Saskatchewan.....	173,746,450	42,673,721	18,761,001	5,051,389	451,237
Alberta.....	97,576,054	17,912,890	13,222,040	2,793,742	189,786
Total.....	316,865,726	79,558,422	52,962,146	8,623,906	1,445,766

LOADED OVER PLATFORMS

Manitoba.....	153,123	41,286	98,089	12,926	2,961
Saskatchewan.....	52,501	22,024	16,567	4,330	.....
Alberta.....	153,958	95,961	17,064	14,738	.....
Total.....	359,582	159,271	131,720	31,994	2,961

AT INTERIOR PUBLIC AND SEMI-PUBLIC TERMINALS

Manitoba.....	.....	326	945	.....	.....
Saskatchewan.....	.....	.....	.....	.....	.....
Alberta.....	12,257	83,194	14,534	1,678	429
Total.....	12,257	83,520	15,479	1,678	429

AT INTERIOR PRIVATE AND MILL ELEVATORS

Manitoba.....	366,826	74,799	45,185	.....	27,188
Saskatchewan.....	657,047	63,445	49,471	15,437	12,690
Alberta.....	1,285,635	498,661	119,695	15,532	3,557
Total.....	2,309,508	636,905	214,351	30,969	43,435

*TRUCKED FROM FARMS INTO U.S.A.

Manitoba.....	7,212	1,971	1,749	.....	.....
Saskatchewan.....	16,405	600	150	.....	.....
Alberta.....	.....	6,872	725	75	.....
Total.....	23,617	9,443	2,624	75	.....

For footnotes, see next page.

SUMMARY OF PRODUCTION OF GRAIN IN WESTERN CANADA IN 1949, PRIMARY
MARKETINGS BY PRODUCERS AND TOTAL INSPECTIONS,
CROP YEAR 1949-50—*Concluded*

TOTAL MARKETED

	Wheat (All Varieties)	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Manitoba.....	46,070,383	19,090,193	21,125,073	791,701	834,892
Saskatchewan.....	174,472,403	42,759,790	18,827,189	5,071,156	463,927
Alberta.....	99,027,904	18,597,578	13,374,058	2,825,765	193,772
Total.....	319,570,690	80,447,561	53,326,320	8,688,622	1,492,591

(c) INSPECTIONS

Manitoba.....	46,073,778	19,725,164	21,472,366	1,035,210	749,354
Saskatchewan.....	168,499,241	43,439,736	20,028,309	5,791,617	610,304
Alberta and British Columbia	87,731,473	12,693,064	8,888,306	2,527,943	203,608
Total.....	302,304,492	75,857,964	50,388,981	9,354,770	1,563,266

(a) Production represents gross production estimate by Dominion Bureau of Statistics.

(b) Primary Marketings—Points in Ontario West of Fort William are included in Manitoba figures; country points in the Peace River Valley situated in British Columbia are included in Alberta figures.

(c) Inspections—These are compiled according to provinces in which grain was grown on an estimated average net bushel outturn weight per car.

* Customs returns—Dominion Bureau of Statistics.

TOTAL PRIMARY GRAIN HANDLINGS AT EASTERN ELEVATORS 1949-50

CANADIAN GRAIN

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Receipts.....	157,375,457	32,286,126	14,320,432	361,502	4,171,928
Shipments.....	146,719,250	33,552,930	15,233,600	1,283,373	6,987,310
	Canadian Corn	Canadian Buckwheat	Canadian Beans	Canadian Peas	Mixed Grain
	bu.	bu.	bu.	bu.	bu.
Receipts.....	1,888,235	51,785	292,453		624,251
Shipments.....	1,909,156	64,459	293,553	896	643,160

UNITED STATES GRAIN

—	Wheat	Oats	Barley	Flaxseed	Corn
	bu.	bu.	bu.	bu.	bu.
Receipts.....	7,563,541	5,647,978	3,300,959	342,633	25,957,772
Shipments.....	4,299,329	5,600,367	931,833	342,430	23,626,369

—	Beans	Buckwheat
	bu.	bu.
Receipts.....	99,844	39,066
Shipments.....	92,500	38,960

FOREIGN GRAIN (OTHER THAN U.S.A.)

—	Argentine Oats
	bu.
Receipts.....	678,235
Shipments.....	184,719

IMPORTS OF FOREIGN GRAIN FOR CANADIAN DOMESTIC CONSUMPTION

(AMOUNTS MOVED FROM ELEVATORS INTO DOMESTIC CONSUMPTIVE CHANNELS) 1949-50

—	U.S.A. Wheat	U.S.A. Oats	U.S.A. Barley	U.S.A. Rye	U.S.A. Corn
	bu.	bu.	bu.	bu.	bu.
Via Eastern Elevators.....	6	253,347	10,806		5,708,776
Fort William-Port Arthur.....					100,927
Interior Terminals.....	2,145				20,828
Interior Private and Mill Elevators.....				4,277	234,694

—	U.S.A. Beans	Argentine Oats
Via Eastern Elevators.....	92,500	137,072

PRIMARY RECEIPTS AND SHIPMENTS AT TERMINAL ELEVATORS,
CROP YEAR 1949-50

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
<i>Fort William-Port Arthur—</i>					
Receipts.....	181,398,272	61,888,308	41,187,050	9,201,459	1,317,632
Shipments.....	169,754,395	62,954,811	41,421,980	9,727,200	4,441,114
<i>Vancouver-New Westminster—</i>					
Receipts.....	69,902,301	1,668,895	905,816	61,333	77
Shipments.....	62,952,390	2,688,798	855,581	86,911	
<i>Victoria, B.C.—</i>					
Receipts.....					
Shipments.....					
<i>Prince Rupert, B.C.—</i>					
Receipts.....					
Shipments.....					
<i>Churchill, Man.—</i>					
Receipts.....	6,752,332	740			
Shipments.....	5,527,535	9,417			
<i>Semi-Public Terminal at North Transcona, Man.—</i>					
Receipts.....	189,845	53,220	20,349	8,731	232
Shipments.....	189,845	56,999	19,955	8,731	232
<i>Kenora, Ont.—</i>					
Receipts.....					
Shipments.....					

TOTAL NET HANDLINGS CANADIAN GRAIN AT CANADIAN GOVERNMENT
INTERIOR TERMINAL ELEVATORS

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
<i>Receipts—</i>					
Calgary.....	372,015	81,853	1,939,528	78,463	
Edmonton.....	131,803	269,424	18,747	1,678	
Lethbridge.....	13,111		415		429
Moose Jaw.....	27,425	4,648	703	2,081	
Saskatoon.....	2,951	1,934			
Total.....	547,305	357,859	1,959,393	82,222	429
<i>Shipments—</i>					
Calgary.....	383,157	79,942	2,074,125	53,834	
Edmonton.....	171,686	256,945	17,375	1,678	
Lethbridge.....	13,776	108	415		481
Moose Jaw.....	27,323	4,661	713	2,081	
Saskatoon.....	3,258	1,934			11,269
Total.....	599,200	343,590	2,092,628	57,593	11,750

CANADIAN GRAIN HANDLED AT DULUTH-SUPERIOR

(INCLUDING DUTY-PAID IMPORTS)

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Receipts.....		70,588	1,221,382	946,420	
Shipments.....		70,588	1,221,382	946,420	

ANALYSIS OF CANADIAN WHEAT EXPORTS, BY MONTHS AND SEABOARD SECTOR, CROP YEAR 1949-50

Month	Via Canadian Pacific Seaboard Ports	Via Canadian Atlantic Seaboard Ports	Via Churchill	Via Fort William- Port Arthur Direct	Via U.S.A. Atlantic Seaboard Ports	U.S.A. IMPORTS		TOTAL ALL WHEAT	WHEAT FLOUR	GRAND TOTAL WHEAT AND WHEAT FLOUR
						For Domestic Use	Milling in Bond			
1949	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
	August.....	5,273,627	9,002,975	2,362,425	.....	11,500	50,437	16,700,904	3,897,896	20,598,860
	September.....	4,181,358	8,171,661	2,594,110	.....	6,000	874,638	15,827,767	3,771,234	19,599,001
	October.....	4,479,385	13,369,704	571,000	.....	.....	1,674,811	20,094,900	3,239,775	23,334,675
	November.....	6,753,563	13,926,263	.....	.....	457,183	1,562,387	22,699,396	4,409,991	27,109,387
	December.....	5,899,706	3,824,505	.....	27,030	51,057	815,712	10,618,010	3,797,955	14,415,965
1950	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	January.....	6,462,657	4,134,621	.....	10,020	9,755	401,628	11,018,631	3,279,379	14,298,060
	February.....	4,238,343	3,162,538	.....	18,500	52,300	442,214	7,913,895	3,551,144	11,465,039
	March.....	4,655,198	5,560,584	.....	16,515	254,781	709,345	11,196,423	3,712,185	14,908,608
	April.....	4,191,244	4,244,636	.....	23,675	408,778	106,298	8,974,631	3,076,087	12,050,718
	May.....	6,643,600	11,459,704	.....	.....	411,662	3,810,970	22,325,936	5,316,795	27,642,731
	June.....	4,898,381	12,957,161	51,787	41,503	39,600	663,971	18,652,403	4,140,148	22,792,551
	July.....	3,662,292	8,945,738	147,337	6,200	131,187	541,120	13,433,874	3,487,316	16,921,190
	Total Crop Year 1949-50.....	61,339,354	98,760,090	199,124	143,443	1,833,803	11,653,531	179,456,880	45,679,905	225,136,785
	Total Crop Year 1948-49.....	60,351,049	103,521,273	.....	9,793,476	1,415,709	3,839,462	184,235,311	48,094,024	232,329,335
5-Year Average: 1944-45 to 1948-49.....		45,228,270	110,326,512	.....	37,447,388	7,074,399	5,176,955	207,897,318	62,747,327	270,644,645

ANALYSIS OF CANADIAN GRAIN OVERSEAS EXPORTS, BY GRADE AND SEABOARD SECTOR, CROP YEAR 1949-50

Grades	Via Canadian Pacific Seaboard Ports	Via ¹ Canadian St. Lawrence —Atlantic Seaboard Ports	Via United States Atlantic Seaboard Ports	GRAND TOTAL
	bu.	bu.	bu.	bu.
<i>Wheat (Including Durum)—</i>				
1 Northern.....	16,497,360	21,939,879	128,940	38,566,179
2 Northern.....	20,542,758	63,223,383	12,020	83,778,161
3 Northern.....	11,947,197	4,249,353		16,196,550
4 Northern.....	6,606,223	2,239,027		8,845,250
No. 5.....	36,587	91,761	2,483	130,831
No. 6.....		1,000		1,000
Smutty 1 Northern.....		80,702		80,702
Smutty 2 Northern.....		85,311		85,311
Rej. 2 Nor. Mixed Heated.....		14,888		14,888
Tf. Rej. 2 Nor. Mixed Heated.....		6,359		6,359
Sample.....		39,944		39,944
Sample Red Spring.....		64,896		64,896
Sample Fireburnt.....		995		995
1 C.W. Garnet.....	25,821	19,045		44,866
2 C.W. Garnet.....	1,260,784	242,980		1,503,764
3 C.W. Garnet.....	2,948,335	243,723		3,192,058
1 A.R.W.....	849,668			849,668
2 Alberta Winter.....	569,853			569,853
3 Alberta Winter.....	54,768			54,768
Eastern.....		2,207,251		2,207,251
1 C.W. Amber Durum.....		42,955		42,955
2 C.W. Amber Durum.....		3,068,303		3,068,303
3 C.W. Amber Durum.....		6,589,006		6,589,006
Smutty 2 C.W. Amber Durum.....		35,988		35,988
Total.....	61,339,354	104,486,749	143,443	165,969,546
<i>Oats—</i>				
2 C.W.....		84,021		84,021
Ex. 3 C.W.....		62,256		62,256
3 C.W.....	5,882	792,822		798,704
Ex. 1 Feed.....	318,041			318,041
1 Feed.....	198,753	32,986		231,739
Mixed Feed.....	209,400	349,269		558,669
Total.....	732,076	1,321,354		2,053,430
<i>Barley—</i>				
3 C.W. Six-Row.....		55,046		55,046
1 Feed.....	211,385	766,033		977,418
2 Feed.....	230,992			230,992
3 Feed.....	57,633			57,633
Total.....	500,010	821,079		1,321,089
<i>Rye—</i>				
2 C.W.....	80,000	256,259		336,259
3 C.W.....		344,651		344,651
Total.....	80,000	600,910		680,910
<i>Flaxseed—</i>				
1 C.W.....		2,998,357		2,998,357
Sample.....		25,090		25,090
Eastern.....		10,378		10,378
Total.....		3,033,825		3,033,825

¹Including clearances shipped via the Port of Churchill and via Fort William—Port Arthur direct.

EXPORT CLEARANCES OF CANADIAN GRAIN TO OVERSEAS DESTINATION BY
SEABOARD PORTS, CROP YEAR 1949-50

Loaded at	Wheat (All Varieties)	Oats	Barley	Rye	Flaxseed	Grand Total All Grains
	bu.	bu.	bu.	bu.	bu.	bu.
Vancouver-New Westmr....	61,339,354	732,076	500,010	80,000		62,651,440
Victoria.....						
Prince Rupert.....						
Montreal.....	62,658,025	835,866	821,079	540,910	2,963,248	67,819,128
Sorel.....	6,097,442			60,000		6,157,442
Three Rivers.....	7,265,310					7,265,310
Quebec.....	4,887,800	393,905				5,281,705
St. John.....						
West St. John.....	11,057,064	91,583			52,481	11,201,128
Halifax.....	6,794,449					6,794,449
Churchill.....	5,527,535					5,527,535
Fort Wm. Port Arthur (Direct).....	199,124				18,096	217,220
Total—Canadian Ports...	165,826,103	2,053,430	1,321,089	680,910	3,033,825	172,915,357
New York.....	143,443					143,443
Total—U.S.A. Ports.....	143,443					143,443
Total to Overseas.....	165,969,546	2,053,430	1,321,089	680,910	3,033,825	173,058,800
Wheat Flour ¹	45,679,905					45,679,905
Rolled Oats and Oatmeal ²		1,403,909				1,403,909
U.S.A. Imports ³	13,487,334	17,089,199	16,202,317	9,273,201		56,052,051
Grand Total.....	225,136,785	20,546,538	17,523,406	9,954,111	3,033,825	276,194,665

¹Canadian Customs Returns converted to bushels, adjusted to remove the effect of time lag in reports made by the Customs.

²Canadian Customs returns converted to bushels.

³Compiled from returns of Canadian elevator licensees and advice from American grain correspondents.

BOARD OF GRAIN COMMISSIONERS FOR CANADA—STATISTICS BRANCH
MONTHLY AVERAGE FIXED WESTERN GRAIN PRICES AND OPEN MARKET CLOSING CASH QUOTATIONS, CROP YEAR 1949-50

—		August	September	October	November	December	January	February	March	April	May	June	July	Yearly Average
(a) CANADIAN WHEAT BOARD CASH PRICES														
WHEAT ¹														
(1) Initial Payment to Producers Compulsory Pool 1949-50														
1 Hard.....	175	175	175	175	175	175	175	175	175	175	175	175	175	175
1 Northern.....	175	175	175	175	175	175	175	175	175	175	175	175	175	175
2 Northern.....	172	172	172	172	172	172	172	172	172	172	172	172	172	172
3 Northern.....	170	170	170	170	170	170	170	170	170	170	170	170	170	170
4 Northern.....	165	165	165	165	165	165	165	165	165	165	165	165	165	165
Number 5.....	155	155	155	155	155	155	155	155	155	155	155	155	155	155
Number 6.....	151	151	151	151	151	151	151	151	151	151	151	151	151	151
Feed.....	149	149	149	149	149	149	149	149	149	149	149	149	149	149
(2) Class I (Domestic Sales) ² —														
1 Hard.....	205	205	205	206	206	206	206	206	206	206	206	206	206	205/7
1 Northern.....	205	205	206	206	206	206	206	206	206	206	206	206	206	205/7
2 Northern.....	202	202	203	203	203	203	203	203	203	203	203	203	203	202/7
3 Northern.....	200	200	201	201	201	201	201	201	201	201	201	201	201	200/7
4 Northern.....	197	197	198	198	198	198	198	198	198	198	198	198	198	197/7
Number 5.....	185/2	185	186	186	186	186	186	186	186	186	186	186	186	185/7
Number 6.....	181/2	181	182	182	182	182	182	182	182	182	182	182	182	181/7
Feed.....	179/2	179	180	180	180	180	180	180	180	180	180	180	180	179/7
1 C.W. Garnet.....	200	200	200	201	201	201	201	201	201	201	201	201	201	200/7
2 C.W. Garnet.....	198	198	199	199	199	199	199	199	199	199	199	199	199	198/7
3 C.W. Garnet.....	196	196	197	197	197	197	197	197	197	197	197	197	197	196/7
1 Alberta Red Winter.....	205	205	206	206	206	206	206	206	206	206	206	206	206	205/7
2 Alberta Winter.....	204	204	205	205	205	205	205	205	205	205	205	205	205	204/7
3 Alberta Winter.....	201	201	202	202	202	202	202	202	202	202	202	202	202	201/7
1 C.W. Amber Durum.....	205	205	206	206	206	206	206	206	206	206	206	206	206	205/7
2 C.W. Amber Durum.....	202	202	203	203	203	203	203	203	203	203	203	203	203	202/7
3 C.W. Amber Durum.....	200	200	201	201	201	201	201	201	201	201	201	201	201	200/7
(3) Class II (Export Sales) ³ —														
(a) United Kingdom Contract ³ —														
1 Hard.....	205	205	206	206	206	206	206	206	206	206	206	206	206	205/7
1 Northern.....	205	205	206	206	206	206	206	206	206	206	206	206	206	205/7
2 Northern.....	202	202	203	203	203	203	203	203	203	203	203	203	203	202/7
3 Northern.....	200	200	201	201	201	201	201	201	201	201	201	201	201	200/7

(Cents and eighths per bushel)

BARLEY—

(1) *Domestic and Export Sales*—

1 C.W. Six-Row.....	134/1	151/5	157/5	161/5	153	141/2	142/3	163/3	176/6	172/5	181/3	175/3	159/2
2 C.W. Six-Row.....	134/1	151/5	157/5	161/5	153	141/2	142/3	163/3	176/6	172/5	181/3	175/3	159/2
1 C.W. Two-Row.....	129/6	147/5	153/5	157/5	149	137/2	138/3	152/6	161/6	155/5	164/3	159/7	150/5
2 C.W. Two-Row.....	129/6	147/5	153/5	157/5	149	137/2	138/3	152/6	161/6	155/5	164/3	159/7	150/5
3 C.W. Six-Row.....	132	149/5	155/5	159/5	151	139/2	140/3	161/3	174/6	170/5	179/3	173/3	157/2
3 C.W. Six-Row.....	132	149/5	155/5	159/5	151	139/2	140/3	161/3	174/6	170/5	179/3	173/3	157/2
2 C.W. Yellow.....	125/7	138/3	144/5	146/5	137	125/2	126/3	139	146/6	148/4	157/2	155	140/7
3 C.W. Yellow.....	125/7	138/3	144/5	146/5	137	125/2	126/3	139	146/6	148/4	157/2	155	140/7
1 Feed.....	125/5	137/7	143/5	145/5	136	124/2	125/3	138	145/6	147/4	156/2	153/6	140
2 Feed.....	125/5	137/7	143/5	145/5	136	124/2	125/3	138	145/6	147/4	156/2	153/6	140
3 Feed.....	124/5	136/4	139/6	141/6	131	119/2	120/3	132/5	141/6	142/6	151/2	150/4	136
2 Feed.....	124/5	136/4	139/6	141/6	131	119/2	120/3	132/5	141/6	142/6	151/2	150/4	136
3 Feed.....	122	135/6	138/2	139/6	128/2	116/6	117/7	131/7	141/2	142/1	150/6	149/6	134/6
3 Feed.....	122	135/6	138/2	139/6	128/2	116/6	117/7	131/7	141/2	142/1	150/6	149/6	134/6
3 Feed.....	122	132/5	134/1	134/7	123/2	111/6	114/7	129/4	137/1	138/5	146/5	145	130/7

(2) *Initial Payment to Producers Compulsory Pool 1949-50—*

1 C.W. Six-Row.....	95	95	95	95	95	95	95	95	95	95	95	95	95
2 C.W. Six-Row.....	95	95	95	95	95	95	95	95	95	95	95	95	95
1 C.W. Two-Row.....	93	93	93	93	93	93	93	93	93	93	93	93	93
2 C.W. Two-Row.....	93	93	93	93	93	93	93	93	93	93	93	93	93
3 C.W. Six-Row.....	93	93	93	93	93	93	93	93	93	93	93	93	93
3 C.W. Six-Row.....	93	93	93	93	93	93	93	93	93	93	93	93	93
2 C.W. Yellow.....	91	91	91	91	91	91	91	91	91	91	91	91	91
3 C.W. Yellow.....	89	89	89	89	89	89	89	89	89	89	89	89	89
1 Feed.....	87	87	87	87	87	87	87	87	87	87	87	87	87
2 Feed.....	83	83	83	83	83	83	83	83	83	83	83	83	83
3 Feed.....	79	79	79	79	79	79	79	79	79	79	79	79	79

(b) WINNIPEG GRAIN EXCHANGE

CASH QUOTATIONS—

OATS—

(1) *Domestic and Export Sales*—

2 C.W.....	74/6	77/3	80/1	84	81/5	80/4	84	94/7	103/1	109/7	115/7	99/7	90/4
Ex. 3 C.W.....	72/7	75/4	77/6	81/3	79	77/5	80/7	93/2	102/1	108/2	114/3	97/7	88/3
3 C.W.....	72/5	74/6	77/2	80/6	78/4	76/6	80/2	92/7	101/6	107/6	114/3	97/5	87/7
Ex. 1 Feed.....	72	74/6	77/2	80/6	78/4	76/7	80/2	92/7	101/6	107/1	114/3	97/5	87/7
1 Feed.....	71/4	73/4	76/1	79/4	77/1	75/5	79/7	92/5	101/4	105/6	113/3	96/4	86/7
2 Feed.....	69/4	71/3	73/3	77/6	75/5	74/6	78/6	91/2	100	101/6	109/3	93	84/6
3 Feed.....	67/4	70/2	71/6	73/3	72/1	71/1	75/1	87/2	96/1	98	106/1	90	81/4

BARLEY—

(1) *Domestic and Export Sales*—

1 C.W. Six-Row.....	131/5	151/3	157/2	161/5	152/5	141/2	142/2	163/3	176/5	172/4	181/2	175/1	158/7
2 C.W. Six-Row.....	131/5	151/3	157/2	161/5	152/5	141/2	142/2	163/3	176/5	172/4	181/2	175/1	158/7
1 C.W. Two-Row.....	126/3	143	149/2	157/5	148/5	137/2	138/2	152/6	161/5	155/5	164/3	159/4	139/4
2 C.W. Two-Row.....	126/3	143	149/2	157/5	148/5	137/2	138/2	152/6	161/5	155/5	164/3	159/4	139/4
3 C.W. Six-Row.....	130/3	149/3	155/2	159/5	150/5	139/2	140/2	161/3	174/5	170/4	179/3	173/1	157
2 C.W. Yellow.....	124/4	137/3	143/2	144/6	134/5	122/2	123/2	137/6	146/5	147/4	156/3	154/5	139/3
3 C.W. Yellow.....	124	136/2	141/2	142/6	132/5	131/2	132/2	136/6	145/5	146/4	155/3	153/2	138/1
1 Feed.....	125	135/5	139/2	141/1	130/6	118/6	120/1	132/5	141	142/2	151/1	149/7	135/5
2 Feed.....	124/3	134/7	137/2	138/7	127/3	116/3	117/6	131/6	140/5	141/4	150/5	149/2	134/2
3 Feed.....	121/3	131/3	132/3	134	122/4	111/4	114/7	129	136/6	138	146/3	144/3	130/2

BOARD OF GRAIN COMMISSIONERS FOR CANADA—STATISTICS BRANCH—Concluded
MONTHLY AVERAGE FIXED WESTERN GRAIN PRICES AND OPEN MARKET CLOSING CASH QUOTATIONS, CROP YEAR 1949-50—Concluded

	August	September	October	November	December	January	February	March	April	May	June	July	Yearly Average
(Cents and eighths per bushel)													
(b) WINNIPEG GRAIN EXCHANGE CASH QUOTATIONS ^a —Concluded													
RYE—													
(1) Domestic and Export Sales and Producers' Prices—													
2 C.W.....	132/2	139/4	154/4	148/3	153/4	146/1	139/5	143/4	141/6	152/3	146/6	153/7	146
3 C.W.....	128/2	135/4	151/2	144/5	148/6	142/4	136/1	140/4	139/4	149/3	142/5	148/7	142/2
4 C.W.....	121/6	130	144/5	138/6	143/4	135/1	127/4	133/6	132/2	142/3	137/1	142/1	135/6
Ergoty.....	113/6	124/3	137/3	130/6	135/4	127/1	119/5	125/6	124/2	134/3	129/1	134/1	128
Rejected 2 C.W.....	118/6	127	140/5	134/6	139/4	131/1	123/4	129/6	128/2	138/3	133/1	138/1	131/7
FLAXSEED—													
(1) Domestic and Export Sales and Producers' Prices—													
1 C.W.....	341/37	367/5	376/7	378/4	379	365/1	372/5	375/1	377/2	377/7	375/2	374/6	371/6
2 C.W.....	336/37	362/3	371/2	373/4	374	360/1	367/5	370/1	372/2	372/7	370/2	369/6	366/6
3 C.W.....	316/37	342/2	351/2	358	359	345/1	352/5	355	357/2	357/7	355/2	352/3	350/2
4 C.W.....	311/37	337/2	346/2	353	354	340/1	347/5	350/1	352/2	352/7	350/2	347/3	345/2

¹Basis in Store Fort William—Port Arthur or Vancouver.

²Covers sales for seed and Feed or to mills and includes carrying charges—5c. per bushel August 1, 1949, to September 30, 1949, inclusive, and 6c. per bushel during the remainder of the Crop Year.

³Includes carrying charges—5c. per bushel August 1, 1949, to September 30, 1949, inclusive, and 6c. per bushel during the remainder of the Crop Year.

⁴Plus 5c. per bushel carrying charge August 1, 1949, to December 13, 1949, inclusive.

⁵Basis in Store Fort William—Port Arthur.

⁶For Local sales and for Spot sales subject to confirmation.

⁷No official quotations August 1, 1949, to August 27, 1949, inclusive.

NOTE.—The Canadian Wheat Board was authorized to conduct a Voluntary Pool for Flaxseed during 1949-50 with initial payments basis 1 C.W. Flaxseed—\$2.50 per bushel in store Fort William—Port Arthur. Deliveries during the season were small (24,219 bu.); a final payment of \$1.243 per bushel was made on the first two principal grades.

Fort William, Ontario.

(k) ANNUAL WEIGH-OVER, TERMINAL AND EASTERN ELEVATORS

BOARD OF GRAIN COMMISSIONERS FOR CANADA

ANNUAL WEIGH-UP OF GRAIN IN STORE IN PUBLIC TERMINAL ELEVATORS, CROP YEAR AUGUST 1, 1949, TO JULY 31, 1950

SUMMARY OF OVERAGES OR SHORTAGES

Date of Audit	Licensee	Wheat		Oats		Mixed Feed Oats		Barley		Rye		Flaxseed		Mixed Grain		Corn	
		Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age
1950		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
July 18.....	<i>Canadian Government Elevators—</i>																
July 24.....	Edmonton, Alta.....	274-20			426-26				59-18	33-32				6,000			27-48
July 17.....	Lethbridge, Alta.....		6-10														
July 27.....	Saskatoon, Sask.....				-10				1-02			16-51					
	Moose Jaw, Sask.....																
	Totals.....	274-20	6-10		427-02				60-20	33-32		16-51		6,000			27-48
	Net Total Overage.....	268-10			427-02					33-32		16-51		6,000			
	or Shortage.....								60-20								27-48

Fort William, Ont.

BOARD OF GRAIN COMMISSIONERS FOR CANADA
ANNUAL WEIGH-UP, CROP YEAR 1949-50

SUMMARY OF RESULTS OF CALCULATION OF EXCESS OR DEFICIENCY IN THE FIRST FOUR STATUTORY AND 1 C.W. GARNET AND 2 C.W. GARNET GRADES OF WHEAT,
AS REVEALED BY THE ANNUAL WEIGH-UP DURING THE CROP YEAR, AUGUST 1, 1949 TO JULY 31, 1950 OF GRAIN IN STORE IN PUBLIC TERMINAL ELEVATORS IN
THE WESTERN DIVISION AND ARRIVED AT IN THE MANNER PRESCRIBED IN SECTION 138, CANADA GRAIN ACT, 1930, AND AMENDMENTS THERETO

Date of Audit	LICENSEE	EXCESS						DEFICIENCY					
		1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
1950		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
July 18.	Canadian Government Elevators—												
	Edmonton, Alta.									7-40	13-50		
July 24.	Lethbridge, Alta.								15-30	23-30			
July 17.	Saskatoon, Sask.								3-50				
July 27.	Moose Jaw, Sask.								11-10	27-00			

Fort William, Ont.

BOARD OF GRAIN COMMISSIONERS FOR CANADA
STATISTICS BRANCH

ANNUAL WEIGH-UP, CROP YEAR 1949-50

SUMMARY OF RESULTS OF CALCULATION OF EXCESS OR DEFICIENCY IN THE FIRST FOUR STATUTORY AND 1 C.W. GARNET AND 2 C.W. GARNET GRADES OF WHEAT
AS DISCLOSED BY THE ANNUAL WEIGH-UP DURING THE CROP YEAR AUGUST 1, 1949, TO JULY 31, 1950, OF GRAIN IN STORE IN SEMI-PUBLIC
TERMINAL ELEVATORS, FORT WILLIAM-PORT ARTHUR, AND ARRIVED AT IN THE MANNER PRESCRIBED
IN SECTION 138, CANADA GRAIN ACT, 1930, AND AMENDMENTS THERETO

Date of Audit	LICENSEE	EXCESS					DEFICIENCY						
		1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
July 27-28	Canadian Consolidated Grain Co. Empire							223-40		818-20	2,050-20		
July 15-20	Eastern Terminal Elevator Co. Ltd. Jas. Richardson & Sons							1,208-40		698-40	327-40	3-20	51-00
July 31-Aug. 4 June 27-29	Federal Grain Ltd. Northwestern Stewart							4,602-00 6,609-30		15,923-40 16,810-50	1,773-40 1,008-00		39-40
Dec. 5-7 Aug. 10-15 Dec. 12-15	Fort William Elevator Co. Ltd. Elevator "E" Elevator "F" Lakehead Terminals Ltd.				480-30			1,033-00 1,204-30 640-20		87-40 1,124-50 464-00	380-10 133-40		8-50 3-40
June 20-21 May 29-30 June 9-14 Aug. 20-23 June 27-28 June 2-9	Manitoba Pool Elevators Terminal No. 1 Terminal No. 2 Terminal No. 3 Terminal No. 4 Terminal No. 5 Terminal No. 6 Terminal No. 7 Terminal No. 8 Terminal No. 9							109-00 340-30 2,336-30 146-00 6,485-00 1,316-40 7,026-10 2,540-10 18,980-40 2,375-50 355-20		1,357-50 2,336-30 6,485-00 124-50 1,508-50 2,078-20 377-00			
Dec. 9-14	McCabe Grain Co. Ltd. Dominion Govt. Elevator				1,532-00			1,719-00		10,308-40			2-00

BOARD OF GRAIN COMMISSIONERS FOR CANADA

ANNUAL WEIGH-UP, CROP YEAR 1949-50

SUMMARY OF RESULTS OF CALCULATION OF EXCESS OR DEFICIENCY IN THE FIRST FOUR STATUTORY AND 1 C.W. GARNET AND 2 C.W. GARNET GRADES OF WHEAT, AS DISCLOSED BY THE ANNUAL WEIGH-UP DURING THE CROP YEAR AUGUST 1, 1949, TO JULY 31, 1950 OF GRAIN IN STORE IN SEMI-PUBLIC TERMINAL ELEVATORS, FORT WILLIAM-PORT ARTHUR, AND ARRIVED AT IN THE MANNER PRESCRIBED IN SECTION 138, CANADA GRAIN ACT, 1930, AND AMENDMENTS THERETO—*Concluded*

Date of Audit	LICENSEE	EXCESS					DEFICIENCY				
		1	2	3	1 C.W. Garnet	2 C.W. Garnet	1	2	3	1 C.W. Garnet	2 C.W. Garnet
		Hard bu.	Northern bu.	Northern bu.	bu.	bu.	Hard bu.	Northern bu.	Northern bu.	Garnet bu.	Garnet bu.
Dec. 17-24.....	<i>National Grain Co. Ltd.</i>										
	<i>G. T. Pacific.</i>										
Dec. 12-16.....	<i>Ogilvie Flour Mills Co. Ltd.</i>							5,370-20	9,987-10	3,220-40	47-20
Dec. 5-15.....	<i>N. M. Paterson & Co.</i>			2,056-40				503-30	2,262-10	80-10	.....
	<i>Saskatchewan Pool Terminals Ltd.</i>							1,524-50	21,440-00	.....	3-40
July 3-8.....	<i>Terminal No. 4 and 4B.</i>							20,236-40	22,959-50	4,863-20	61-50
June 14-21.....	<i>Terminal No. 7.</i>				23-00			49,122-00	65,089-30	9,123-50	593-20
July 31-Aug. 5.....	<i>Searle Grain Co.</i>					485-00		16,781-30	55,066-50	28,817-10	1,579-20
Dec. 19-23.....	<i>Superior Elevator Co. Ltd. P & H.</i>							1,466-10	2,558-50	35-30	.....
Aug. 1-10.....	<i>United Grain Growers Term. Ltd.</i>							7,429-30	33,766-00	9,791-40	50-30
July 15-24.....	<i>United Grain Growers Term. Ltd.</i>							5,249-10	27,615-30	20,326-30	92-20
July 6-11.....	<i>Western Grain Co. Ltd.</i>				46-00			1,391-20	8,629-40	799-00	143-50

BOARD OF GRAIN COMMISSIONERS FOR CANADA

ANNUAL WEIGH-UP, CROP YEAR 1949-50

SUMMARY OF RESULTS OF CALCULATION OF EXCESS OR DEFICIENCY IN THE FIRST FOUR STATUTORY AND 1 C.W. GARNET AND 2 C.W. GARNET GRADES OF WHEAT, AS DISCLOSED BY THE ANNUAL WEIGH-UP DURING THE CROP YEAR AUGUST 1, 1949, TO JULY 31, 1950, OF GRAIN IN STORE IN SEMI-PUBLIC TERMINAL ELEVATORS, VANCOUVER-NEW WESTMINSTER, CHURCHILL AND NORTH TRANSCONA, AND ARRIVED AT IN THE MANNER PRESCRIBED IN SECTION 138, CANADA GRAIN ACT, 1930, AND AMENDMENTS THERETO

Date of Audit	LICENSEE	EXCESS					DEFICIENCY						
		1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
July 18-24, 1950..	<i>Vancouver-New Westminster</i> Searle Grain Co. Ltd.....					1-00			1,071-10	2,845-00	3,131-20		229-20
Oct. 6-12, 1949...	<i>Churchill, Man.</i> National Harbours Board Elev.....			7,433-00					639-00				910-00
July 21, 1950.....	<i>North Transcona, Man.</i> Eastern Terminal Elevator.....								56-50	287-00	37-30		

BOARD OF GRAIN COMMISSIONERS FOR CANADA
ANNUAL WEIGH-UP, CROP YEAR 1949-50

SUMMARY OF RESULTS OF CALCULATIONS OF EXCESS OR DEFICIENCY IN THE FIRST FOUR STATUTORY AND 1 C.W. AND 2 C.W. GARNET GRADES OF WHEAT HANDLED AND IN STORE IN PRIVATE TERMINAL ELEVATORS IN THE WESTERN DIVISION, DURING CROP YEAR, AUGUST 1, 1949, TO JULY 31, 1950, AND ARRIVED AT IN THE MANNER PRESCRIBED IN SECTION 138, CANADA GRAIN ACT, 1930, AND AMENDMENTS THERETO

Date of Audit, July 27, 1950.	Calgary, Alberta	
	Canada Malting Co. Ltd. No. 1	
	Excess	Deficiency
	bu.	bu.
1 Hard.....		
1 Northern.....		
2 Northern.....		5-00
3 Northern.....		
1 C.W. Garnet.....		
2 C.W. Garnet.....		38-50

No wheat of the above grades was handled or in store in the following elevators:—

Date of Audit	Elevator Company	Location
July 26, 1950	Canada Malting Co. Ltd. No. 2.....	Calgary, Alta.
Mar. 17, 1950	Canada Malting Co. Ltd.....	Winnipeg, Man.
July 14, 1950	Canada Malting Co. Ltd.....	Port Arthur, Ont.
Mar. 24, 1950	Dominion Malting Co. Ltd.....	S. Transcona, Man.
July 20, 1950	United Grain Growers Term. Ltd.....	Edmonton, Alta.
July 22, 1950	National Grain Co. Ltd. (D. & S.).....	Fort William, Ont.

BOARD OF GRAIN COMMISSIONERS FOR CANADA
ANNUAL WEIGH-UP, CROP YEAR 1949-50

SUMMARY OF RESULTS OF CALCULATIONS OF OVERAGES AND SHORTAGES IN WESTERN CANADIAN AND FOREIGN GRAIN AS REVEALED BY THE ANNUAL WEIGH-UP DURING CROP YEAR AUGUST 1, 1949, TO JULY 31, 1950, OF GRAIN IN STORE IN EASTERN ELEVATORS AND ARRIVED AT IN THE MANNER PRESCRIBED IN SECTION 138A, CANADA GRAIN ACT 1930, AND AMENDMENTS THERETO.

Date of Audit	Licensee	Kind of Grain	Overage	Shortage
1950			bu.	bu.
April 14- April 24	Collingwood— Collingwood Terminals Ltd.....	Western Canadian Wheat.....		3,184-30
		Western Canadian Oats.....		494-21
		Western Canadian Barley.....	1,012-29	
		Western Canadian Sple. Grn.....		(lbs.) 100
		Western Canadian Scrgrs.....	3,690 (lbs.)	
		U.S.A. Wheat.....		948-00
		U.S.A. Corn.....		1-28
Mar. 16	Goderich— Goderich El. & Trst. Co. Ltd.....	Western Canadian Wheat.....		4,601-39
		Western Canadian Oats.....		2,916-31
		Western Canadian Barley.....		686-07
		Western Canadian Rye.....		49-07
		Western Canadian Flaxseed.....		89-14
		Western Canadian Mixed Grain.....		(lbs.) 1,570
		Western Canadian Sample Grain.....		(lbs.) 490
		Western Canadian Screenings.....		(lbs.) 5,750
		U.S.A. Oats.....		337-24
		U.S.A. Corn.....		634-16

ANNUAL WEIGH-UP, CROP YEAR 1949-50 (Continued)

CALCULATIONS OF OVERAGE OR SHORTAGE—EASTERN ELEVATORS

Date of Audit	Licensee	Kind of Grain	Overage	Shortage
1950			bu.	bu.
Mar. 20	<i>Goderich—</i> Purity Flour Mills Co. Ltd.....	Western Canadian Wheat..... Western Canadian Oats..... Western Canadian Barley..... U.S.A. Corn.....		6,115-00 101-09 6-19 245-47
Mar. 31	<i>Humberstone—</i> Robin Hood Flour Mills.....	Western Canadian Wheat..... Western Canadian Rye.....		7,997-00 40-33
Mar. 21- Mar. 24	<i>Kingston—</i> Canada Steamship Lines El.....	Western Canadian Wheat..... Western Canadian Oats..... Western Canadian Barley..... Western Canadian Rye..... Western Canadian Flaxseed..... U.S.A. Corn.....		9,997-10 602-05 1,568-24 129-18 2,282-08 639-42
Mar. 30- April 13	<i>Midland—</i> Aberdeen Elev. Co. Ltd.....	Western Canadian Wheat..... Western Canadian Oats..... Western Canadian Barley..... Western Canadian Flaxseed..... U.S.A. Wheat..... U.S.A. Barley..... U.S.A. Corn.....		506-20 94-28 86-03 101-34 367-30 2,327-03 123-18
April 6- May 6	<i>Midland—</i> Can. National Rlys. El. & Co....	Western Canadian Wheat..... Western Canadian Oats..... Western Canadian Flaxseed..... U.S.A. Wheat..... U.S.A. Barley.....		4,599-20 148-19 68-42 2,922-20 2,920-45
April 22- April 29	<i>Midland—</i> Canada Steamship Lines Co.....	Western Canadian Wheat..... Western Canadian Oats..... Western Canadian Barley..... Western Canadian Flaxseed.....		1,364-00 91-13 61-19 94-46
Mar. 27- April 3	<i>Midland—</i> Midland Simcoe Elev.....	Western Canadian Wheat..... Western Canadian Oats..... Western Canadian Barley..... Western Canadian Mixed Grain..... U.S.A. Wheat..... Western Canadian Oats.....		1,674-50 1,872-25 1,170-28 5,540 lbs. 2,525-40 176-14
April 25- April 29	<i>Owen Sound—</i> Great Lakes Elev. Co. Ltd.....	Western Canadian Wheat..... Western Canadian Oats..... Western Canadian Barley..... Western Canadian Flaxseed..... Western Canadian Mixed Grain..... Western Canadian Sample Grain..... Western Canadian Screenings..... U.S.A. Barley..... U.S.A. Corn.....		6,526-30 3,771-06 1,168-28 15-24 (lbs.) 850 (lbs.) 7,910 (lbs.) 6,750 1,504-37 130-22
Feb. 27- Mar. 7	<i>Port Colborne—</i> National Harbours Board El.....	Western Canadian Wheat..... Western Canadian Oats..... Western Canadian Barley..... Western Canadian Rye..... Western Canadian Flaxseed..... U.S.A. Oats..... U.S.A. Barley..... U.S.A. Corn.....		17,495-30 1,174-17 740-44 1,463-34 43-44 1,936-12 201-05 5,707-35
Mar. 8- Mar. 14	<i>Port Colborne—</i> Maple Leaf Milling Co. Ltd.....	Western Canadian Wheat..... Western Canadian Oats..... Western Canadian Mixed Feed Oats Groats..... Western Canadian Barley..... Western Canadian Rye..... U.S.A. Corn.....		10,089-40 340-28 16,640-20 152-46 28-52 28-36

ANNUAL WEIGH-UP, CROP YEAR 1949-50—(Continued)

CALCULATIONS OF OVERAGE OR SHORTAGE—EASTERN ELEVATORS

Date of Audit	Licensee	Kind of Grain	Overage	Shortage
1950			bu.	bu.
April 4- April 21	<i>Port McNicoll—</i> Can. Pacific Rly. Elev.....	Western Canadian Wheat.....		7,747-30
		Western Canadian Oats.....		626-33
		Western Canadian Barley.....		253-42
		Western Canadian Flaxseed.....	170-22	
		U.S.A. Wheat.....		3,484-40
Mar. 6- Mar. 20	<i>Prescott—</i> National Harbours Board Elev....	Western Canadian Wheat.....		1,099-50
		Western Canadian Oats.....	712-18	
		Western Canadian Barley.....		198-01
		Western Canadian Rye.....		74-44
		Western Canadian Flaxseed.....		657-13
		Western Canadian Mixed Grain.....		(lbs.) 230
		Western Canadian Sample Grain.....	18,890 (lbs.)	
		Western Canadian Salvage Grain.....		(lbs.) 232,450
		Western Canadian Screenings.....		(lbs.) 50
		U.S.A. Oats.....		92-02
		U.S.A. Corn.....		1,138-14
April 10- April 27	<i>Sarnia—</i> Sarnia Elevator Co. Ltd.....	Western Canadian Wheat.....		7,632-12
		Western Canadian Oats.....		987-17
		Western Canadian Barley.....		1,978-38
		Western Canadian Flaxseed.....		1,247-03
		U.S.A. Wheat.....		570-40
		U.S.A. Corn.....		627-15
Mar. 20- Mar. 29	<i>Toronto—</i> Toronto Elevators Ltd.....	Western Canadian Wheat.....		3,354-20
		Western Canadian Oats.....		2,196-02
		Western Canadian Barley.....		1,891-07
		Western Canadian Flaxseed.....		1,073-18
		Western Canadian Screenings.....		(lbs.) 80
		U.S.A. Corn.....		611-23
Mar. 9- Mar. 17	<i>Walkerville..</i> Hiram Walker & Sons Gr. Corp..	Western Canadian Wheat.....		120-50
		Western Canadian Oats.....		283-01
		Western Canadian Barley.....	241-31	
		Western Canadian Rye.....		839-42
		Western Canadian Screenings.....		(lbs.) 10
		U.S.A. Oats.....		228-15
		U.S.A. Corn.....		1,947-27
		U.S.A. Soya Beans.....		23-05
		U.S.A. Dried Grains.....		(lbs.) 220
		Origin Unknown Dried Grains.....		(lbs.) 820
Feb. 16- Mar. 3	<i>Montreal—</i> National Harbours Board El.....	Western Canadian Wheat.....		29,725-40
		Western Canadian Oats.....		2,317-25
		Western Canadian Barley.....		1,973-00
		Western Canadian Rye.....		2,309-24
		Western Canadian Flaxseed.....		4,018-23
		Western Canadian Mixed Grain.....		(lbs.) 61,450
		Western Canadian Sample Grain.....		(lbs.) 1,430
		Western Canadian Screenings.....		(lbs.) 4,300
		U.S.A. Oats.....		4,172-28
		U.S.A. Barley.....		5 1-22
		U.S.A. Corn.....		7,373-13
		U.S.A. Buckwheat.....		7-16
		U.S.A. Soya Beans.....		142-40
Feb. 11- Feb. 16	<i>Montreal—</i> Dominion Elevator Co.....	Western Canadian Wheat.....		657-20
		Western Canadian Oats.....		436-17
		Western Canadian Barley.....		275-18
		Western Canadian Screenings.....		(lbs.) 6,830
		U.S.A. Corn.....		299-13

ANNUAL WEIGH-UP, CROP YEAR 1949-50—(Concluded)

CALCULATIONS OF OVERAGE OR SHORTAGE—EASTERN ELEVATORS

Date of Audit	Licensee	Kind of Grain	Overage	Shortage
			bu.	bu.
Jan. 23- Jan. 30	<i>Quebec—</i> National Harbours Board El.....	Western Canadian Wheat....		3,421-40
		Western Canadian Oats.....		855-13
		Western Canadian Barley....		234-21
		Western Canadian Rye.....		68-30
		Western Canadian Sample Grain.....		(lbs.) 80
		Western Canadian Screenings.....		(lbs.) 750
		U.S.A. Corn.....		143-29
Jan. 30- Feb. 14	<i>Sorel—</i> North American Elevs. Ltd.....	Western Canadian Wheat....		6,606-25
		Western Canadian Oats.....		9-00
		Western Canadian Barley....	35-43	
		Western Canadian Rye.....		152-38
		Western Canadian Screenings.....	418 (lbs.)	
		U.S.A. Oats.....		949-22
		U.S.A. Corn.....		1,918-12
Jan. 31- Feb. 10	<i>Three Rivers—</i> Three Rivers Gr. & Elev. Co.....	Western Canadian Wheat....		5,172-50
		Western Canadian Oats.....		1-08
		U.S.A. Wheat.....		48-50
		U.S.A. Corn.....		152-54
		U.S.A. Soya Beans.....		62-20
June 26	<i>Halifax—</i> National Harbours Board El.....	Western Canadian Wheat....		3,880-40
		Western Canadian Oats.....		131-02
		Western Canadian Barley....		3-07
		U.S.A. Corn.....		114-13
April 25	<i>St. John—</i> Can. Nat. Rlys. Elevator.....	Western Canadian Wheat....		1-00
		Western Canadian Oats.....		32-16
		Western Canadian Barley....		51-45
		U.S.A. Corn.....		-35
April 24	<i>West St. John—</i> Can. Pac. Rlys. Elev. "B".....	Western Canadian Wheat....		2,131-10
		Western Canadian Oats.....		18-03
		Western Canadian Screenings.....	(lbs.)	350
April 24	<i>West St. John—</i> Can. Pac. Rlys. Elev. "H".....	Western Canadian Wheat....		3,806-30
		Western Canadian Oats.....		39-06
		Western Canadian Flaxseed.....		32-45
		U.S.A. Corn.....		185-00

APPENDIX No. 2

COMMITTEE ON GRAIN STANDARDS

COMMITTEE ON WESTERN GRAIN STANDARDS, 1950

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners
 J. Vallance, Commissioner, Board of Grain Commissioners
 R. W. Milner, Commissioner, Board of Grain Commissioners
 A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
 J. Forsyth, Chairman, Grain Appeal Tribunal, Winnipeg
 C. R. Manahan, Chairman, Grain Appeal Tribunal, Edmonton
 P. J. Marples, Chairman, Grain Appeal Tribunal, Calgary
 Dr. J. A. Anderson, Chief Chemist, Dominion Grain Research Laboratory
 Dr. C. H. Goulden, Dominion Cerealist
 W. A. Hastings, representing the millers of wheat flour

George Bennett	}	Representing grain growers in Alberta
W. H. Fairfield		
R. H. MacDonald		
B. S. Plumer		
A. F. Sproule	}	Representing grain growers in Saskatchewan
Prof. M. Champlin		
J. Wellbelove		
L. L. Gray		
G. S. Canfield		
W. J. Parker	}	Representing grain growers in Manitoba
R. Barrett		
Ray Mitchell		

G. Constable, representing grain growers in British Columbia
 Nelson Young, representing Plant Products Division, Department of Agriculture

COMMITTEE ON EASTERN GRAIN STANDARDS, 1950

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners
 J. Vallance, Commissioner, Board of Grain Commissioners
 R. W. Milner, Commissioner, Board of Grain Commissioners
 A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners,
 N. Clare Wight, representing Montreal Board of Trade
 E. D. Sullivan, representing Toronto Board of Trade
 Guy D. Robinson, representing exporters of grain

F. H. Dunsford	}	Representing millers of wheat in the Eastern Division
H. Norman Davis		
Hugh Bailey	}	Representing grain growers in Ontario
W. A. Amos		
Wm. Wallace	}	Additional—representing growers of corn
J. M. VITTE		
John W. Ham		

Meetings held: Western Committee, Winnipeg, September 28, 1950 and October 25, 1950

Eastern Committee, Toronto, August 15, 1950 and November 17, 1950

APPENDIX No. 3

GRAIN APPEAL TRIBUNALS

<i>Winnipeg</i>	<i>Calgary</i>	<i>Edmonton</i>
J. Forsyth, Chairman	P. J. Marples, Chairman	C. R. Manahan, Chairman
Grant Hammond	T. F. Allison	J. F. Schofield
W. E. McLeod	J. Tranter	W. H. Boyle
A. F. Moore	W. N. Pringle	J. R. MacRae
James Gregory	W. McLeod	T. Stickney
S. C. Swanton	E. J. Munson	J. A. Kyle
J. F. Lazenby	G. C. Arbuthnott	H. A. Haggarty
D. K. Mills	A. Watson	C. E. Sage
H. R. Ballance	G. R. Deeton	Ross Saunders
J. A. Wittebolle (Acting Secretary)		D. K. McKay (Secretary)
<i>Toronto</i>	<i>Montreal</i>	
John W. Ham	A. Chaplin	
C. H. Coatsworth	T. B. Earle	
R. O. Pratt	J. A. Byrne	
N. H. Campbell	J. M. Vittie	
C. W. Heimbecker	T. A. Climo	
L. S. Johnston	E. Lorne Tracey (Secretary)	
W. H. McCarthy		
W. A. Robertson		
E. D. Sullivan		
K. F. Wadsworth		
F. D. Tolchard (Secretary)		

SUMMARY OF APPEALS FOR THE CROP YEAR ENDED JULY 31, 1950

—	Appeals Held	Number of Appeals Allowed		Number of Appeals Disallowed
		Raised	Lowered	
Winnipeg.....	199	9	Nil	190
Calgary.....	568	96	Nil	472
Edmonton.....	211	30	Nil	181
Toronto.....	Nil	Nil	Nil	Nil
Montreal.....	Nil	Nil	Nil	Nil
	978	135	Nil	843

APPENDIX No. 4

REPORT OF REGISTRAR

WINNIPEG, MANITOBA,
December 1, 1950.

The Secretary,
Board of Grain Commissioners for Canada,
Winnipeg, Manitoba.

DEAR SIR,—I have the honour to submit hereunder statement showing the total registrations and registrations for cancellation of terminal warehouse receipts, Western Division, and Eastern warehouse receipts or transfer receipts, during the crop year ended July 31, 1950:

	Bushels Registered	Bushels Registered for Cancellation
<i>Winnipeg—</i>		
Wheat.....	188,614,545	175,709,792
Oats.....	62,144,409	63,111,882
Barley.....	38,575,251	38,341,077
Flax.....	1,891,079	5,020,495
Rye.....	9,484,896	9,986,391
Mixed Grain.....	872,876	786,824
Corn.....	191,821	180,848
Buckwheat.....	8,371	1,961
<i>Vancouver—</i>		
Wheat.....	71,886,542	64,970,162
Oats.....	1,723,331	2,706,123
Barley.....	1,014,317	946,292
Flax.....	76	
Rye.....	46,786	86,910
Mixed Grain.....	63,643	11,611
Corn.....	1,047,583	
Buckwheat.....	1,476,474	
<i>Calgary—</i>		
Wheat.....	371,374	383,174
Oats.....	81,853	79,941
Barley.....	1,943,011	2,074,124
Rye.....	78,463	53,833
Mixed Grain.....	3,047	1,530
Corn.....	6,001	20,814
<i>Edmonton—</i>		
Wheat.....	131,802	170,161
Oats.....	269,335	258,470
Barley.....	18,747	17,374
Rye.....	1,745	1,678
Mixed Grain.....		88
Corn.....	1,497	4,942
<i>Lethbridge—</i>		
Wheat.....	15,256	15,921
Oats.....		108
Barley.....	415	415
Flax.....	427	481
Mixed Grain.....	226	226

	Bushels Registered	Bushels Registered for Cancellation
<i>Moose Jaw—</i>		
Wheat.....	27,425	27,572
Oats.....	5,351	5,314
Barley.....	505	10
Flax.....		3,050
Rye.....	1,575	2,080
Mixed Grain.....		31,872
Corn.....	12,583	6,033
Rapeseed.....	250,105	277,064
<i>Saskatoon—</i>		
Wheat.....	2,951	3,257
Oats.....	1,933	1,933
Flax.....		11,269
Mixed Grain.....		936
Rapeseed.....	153	
<i>Summary, Western Division—</i>		
Wheat.....	261,049,895	241,280,043
Oats.....	64,226,212	66,163,774
Barley.....	41,552,246	41,379,294
Flax.....	1,891,582	5,035,296
Rye.....	9,613,465	10,130,895
Mixed Grain.....	939,792	833,089
Corn.....	1,259,485	212,638
Buckwheat.....	1,484,845	1,961
Rapeseed.....	250,258	277,064
Total All Grains.....	382,267,780	365,312,093

EASTERN WAREHOUSE RECEIPTS OR TRANSFER RECEIPTS

<i>Montreal—</i>		
Wheat.....	271,299,388	257,034,134
Oats.....	44,525,720	45,219,196
Barley.....	21,936,622	19,446,003
Flax.....	9,397,231	12,430,657
Rye.....	749,928	1,560,334
Mixed Grain.....	716,792	631,663
Corn.....	38,199,872	37,677,771
Screenings.....	680,052	843,481
Buckwheat.....	92,865	110,140
Beans.....	394,105	386,053
Oats Groats.....	16,640	15,544
Dried Grains.....	102,486	27,124
Peas.....	1,707	896
Salvage Grain.....	6,085	6,085
Total All Grains.....	388,119,493	375,389,081

Yours respectfully,

E. L. JAFFRAY,
Registrar.

APPENDIX No. 5

1064 Grain Exchange,
WINNIPEG, MAN.,
December 5, 1950.

Mr. A. T. Calder, Secretary,
WINNIPEG, MAN.

DEAR SIR,—I have the honour to submit herewith the annual report covering cars and cargo inspections in the Western Division, also the car and cargo inspections and sampling of grain in the Eastern Division for the crop year ending July 31st, 1950.

The Red Spring Wheat crop in Manitoba was equal to that of 1948.

Cars of Barley inspected were heavier in weight per bushel with less admixtures of unapproved varieties, resulting in a higher percentage of cars being graded into the malting grades.

Drought occurred in the South and parts of the central area of Saskatchewan with the result Red Spring Wheat contained thin shrunken kernels, but on the whole was equal to the 1948 crop.

In the northern areas considerable wheat was degraded on account of green immature and frosted kernels.

The coarse grains were of better quality than the previous crop, heavier in weight per bushel and containing less immaturity.

The crop in the Peace River area of Alberta showed marked improvement over the preceding crop with most of the Red Spring Wheat grading into the contract grades.

In the Edmonton and central areas of Alberta some damage was caused by second growth and frost late in the season.

The total number of cars inspected in the Western Division for the year 1949-50 was 246,264 as against 253,282 for the previous year, a decrease of 7,018.

Yours truly,

A. F. DOLLERY,
Chief Grain Inspector.

WESTERN DIVISION

The total Primary Inspections in the Western Division from August 1, 1949 to July 31, 1950 are made up as follows:

	Cars	Percentages
Wheat.....	179,555	72.912
Oats.....	31,918	12.961
Barley.....	26,815	10.889
Flax.....	1,200	0.487
Rye.....	5,706	2.317
Mixed Grain.....	440	0.179
Corn.....	214	0.087
Buckwheat.....	5	0.002
Screenings.....	385	0.156
Sunflower Seeds.....	1	Nil
Rapeseed.....	1	Nil
Peas.....	24	0.010
Total.....	246,264	100.000

The Grades of Wheat are as follows:

	Cars	Percentage	Percentage of Total Wheat Inspections
1 Manitoba Hard.....	1	0.001	
1 Manitoba Northern.....	31,743	18.900	
2 Manitoba Northern.....	100,135	59.619	
3 Manitoba Northern.....	20,299	12.086	
4 Manitoba Northern.....	5,487	3.261	
No. 4 Special.....	17	0.010	
No. 5.....	3,976	2.370	
No. 6.....	780	0.465	
Feed.....	58	0.035	
Sample.....	134	0.080	
Smutty.....	286	0.170	
Tough.....	3,980	2.370	
Damp.....	117	0.069	
Rejected.....	946	0.564	
Total Red Spring Wheats.....	167,959	100.000	93.542
1 Canada Western Garnet.....	20	0.651	
2 Canada Western Garnet.....	1,040	33.854	
3 Canada Western Garnet.....	1,913	62.272	
Tough Canada Western Garnet.....	84	2.734	
Damp Canada Western Garnet.....	1	0.032	
Rejected Canada Western Garnet.....	14	0.457	
Total Garnet Wheats.....	3,072	100.000	1.711
1 Canada Western Amber Durum.....	239	3.670	
2 Canada Western Amber Durum.....	2,307	35.421	
3 Canada Western Amber Durum.....	3,622	55.612	
4 Canada Western Amber Durum.....	107	1.643	
5 Canada Western Amber Durum.....	2	0.031	
Smutty Canada Western Amber Durum.....	54	0.829	
Tough Canada Western Amber Durum.....	60	0.921	
Rejected Canada Western Amber Durum.....	90	1.381	
Sample Canada Western Amber Durum.....	32	0.492	
Total Amber Durum Wheats.....	6,513	100.000	3.627
1 Canada Western Soft White Spring.....	304	45.579	
2 Canada Western Soft White Spring.....	288	43.178	
3 Canada Western Soft White Spring.....	50	7.496	
4 Canada Western Soft White Spring.....	10	1.499	
Smutty Canada Western Soft White Spring.....	1	0.149	
Tough Canada Western Soft White Spring.....	7	1.050	
Damp Canada Western Soft White Spring.....	1	0.149	
Rejected Canada Western Soft White Spring.....	6	0.900	
Total Soft White Spring Wheats.....	667	100.000	0.372
1 Canada Western Mixed Wheat.....	119	51.515	
2 Canada Western Mixed Wheat.....	4	1.731	
3 Canada Western Mixed Wheat.....	43	18.615	
4 Canada Western Mixed Wheat.....	1	0.433	
5 Canada Western Mixed Wheat.....	36	15.585	
Tough Canada Western Mixed Wheat.....	12	5.195	
Damp Canada Western Mixed Wheat.....	1	0.433	
Smutty Canada Western Mixed Wheat.....	2	0.866	
Rejected Canada Western Mixed Wheat.....	13	5.627	
Total Mixed Wheats.....	231	100.000	0.129
1 Alberta Red Winter.....	576	51.753	
2 Alberta Winter.....	314	28.212	
3 Alberta Winter.....	105	9.434	
4 Alberta Winter.....	13	1.168	
Tough Alberta Winter.....	27	2.426	
Smutty Alberta Winter.....	50	4.492	
Rejected Alberta Winter.....	27	2.426	
Sample Alberta Winter.....	1	0.089	
Total Alberta Winter Wheats.....	1,113	100.000	0.619
Total All Wheats.....	179,555		100.000

The Grade of Oats are as follows:

	Cars	Percentages
2 Canada Western.....	765	2.397
Extra 3 Canada Western.....	3,241	10.154
3 Canada Western.....	9,323	29.209
Extra 1 Feed.....	4,012	12.570
1 Feed.....	11,799	36.967
2 Feed.....	2,012	6.304
3 Feed.....	273	0.855
Mixed Feed Oats.....	22	0.068
Rejected Oats.....	50	0.157
Sample.....	13	0.041
Tough.....	400	1.253
Damp.....	8	0.025
Total Oats.....	31,918	100.000

The Grades of Barley are as follows:

1 Canada Western Six Row.....	3	0.011
2 Canada Western Six Row.....	3,246	12.105
3 Canada Western Six Row.....	6,946	25.904
2 Canada Western Two Row.....	156	0.582
2 Canada Western Yellow.....	5	0.019
3 Canada Western Yellow.....	27	0.101
1 Feed.....	6,193	23.095
2 Feed.....	6,839	25.504
3 Feed.....	2,016	7.518
Rejected.....	76	0.283
Sample.....	53	0.198
Tough.....	1,172	4.371
Damp.....	83	0.309
Total Barley.....	26,815	100.000

The Grades of Flax are as follows:

1 Canada Western.....	1,075	89.583
2 Canada Western.....	55	4.583
3 Canada Western.....	16	1.333
4 Canada Western.....	3	0.250
Sample.....	11	0.917
Tough.....	37	3.083
Damp.....	2	0.137
Flax and Broken Wheat.....	1	0.084
Total Flax.....	1,200	100.000

The Grades of Rye are as follows:

1 Canada Western.....	11	0.193
2 Canada Western.....	3,081	53.996
3 Canada Western.....	2,153	37.732
4 Canada Western.....	230	4.031
Ergoty Rye.....	73	1.279
Rejected.....	17	0.298
Tough.....	134	2.348
Damp.....	2	0.035
Sample.....	5	0.088
Total Rye.....	5,706	100.000

The Grades of Mixed Grain are as follows:

	Cars	Percentages
No. 1 Mixed Grain.....	124	28.182
No. 2 Mixed Grain.....	68	15.455
No. 3 Mixed Grain.....	199	45.227
No. 4 Mixed Grain.....	4	0.909
Tough.....	22	5.000
Damp.....	4	0.909
Smutty.....	2	0.454
Rejected.....	6	1.364
Sample.....	11	2.500
Total Mixed Grain.....	440	100.000

The Grades of Corn are as follows:

No. 1 Canada Western Yellow.....	15	7.009
No. 2 Canada Western Yellow.....	24	11.215
No. 3 Canada Western Yellow.....	14	6.542
No. 4 Canada Western Yellow.....	6	2.804
No. 5 Canada Western Yellow.....	5	2.336
Tough.....	12	5.608
Damp.....	1	0.467
Moist.....	66	30.841
Wet.....	68	31.776
Sample.....	3	1.402
Total Corn.....	214	100.000

Buckwheat.....	4	
Screenings.....	385	
Sunflower Seeds.....	1	
Rapeseed.....	1	
Peas.....	24	
Total.....	246,264	

THE NUMBER OF CARS OF GRAIN INSPECTED AT THE VARIOUS POINTS DURING
THE CROP YEAR AUGUST 1, 1949 TO JULY 31, 1950

Points	Cars	Percentages
Winnipeg.....	174,969	71.049
Calgary.....	30,096	12.221
Moose Jaw.....	4,264	1.732
Saskatoon.....	5,608	2.277
Medicine Hat.....	3,197	1.298
Lethbridge.....	107	0.043
Vancouver.....	1,990	0.808
Edmonton.....	22,158	8.998
Churchill.....	3,875	1.574
Total.....	246,264	100.000

SUMMARY OF CARS RE-INSPECTED 1949-50

			Winnipeg		Calgary	
Cars inspected.....			174,969		30,096	
Cars re-inspected.....			29,835 17.05%		6,701 22.27%	
Reinspections	Cars	Percentage of		Cars	Percentage of	
		Rein- spections	Total Cars Inspected		Rein- spections	Total Cars Inspected
Left as Graded.....	17,078	57.24	9.76	2,779	41.47	9.23
Grades Raised.....	6,101	20.45	3.49	2,006	29.93	6.67
Grades Lowered.....	585	1.96	0.33	116	1.73	0.39
Dockage Raised.....	821	2.75	0.47	645	9.63	2.14
Dockage Lowered.....	5,250	17.60	3.0	1,155	17.24	3.84
Total.....	29,835	100.00	17.05	6,701	100.00	22.27
			Edmonton		Saskatoon	
Cars Inspected.....			22,158		5,608	
Cars Re-inspected.....			7,383 33.32%		285 5.08%	
Reinspections	Cars	Percentage of		Cars	Percentage of	
		Rein- spections	Total Cars Inspected		Rein- spections	Total Cars Inspected
Left as Graded.....	3,084	41.78	13.92	272	95.44	4.85
Grades Raised.....	1,044	14.14	4.71	13	4.5	0.23
Grades Lowered.....	168	2.27	0.76			
Dockage Raised.....	425	5.76	1.92			
Dockage Lowered.....	2,662	36.05	12.01			
Total.....	7,383	100.00	33.32	285	100.00	5.08
			Moose Jaw		Medicine Hat	
Cars Inspected.....			4,264		3,197	
Cars Re-inspected.....			224 5.25%		100 3.12%	
Reinspections	Cars	Percentage of		Cars	Percentage of	
		Rein- spections	Total Cars Inspected		Rein- spections	Total Cars Inspected
Left as Graded.....	210	93.75	4.92	40	40.00	1.25
Grades Raised.....	12	5.36	0.28	40	40.00	1.25
Grades Lowered.....						
Dockage Raised.....	2	0.89	0.05	10	10.00	0.31
Dockage Lowered.....				10	10.00	0.31
Total.....	224	100.00	5.25	100	100.00	3.12
			Lethbridge		Vancouver	
Cars Inspected.....			107		1,990	
Cars Re-inspected.....			Nil		41 2.06%	
Reinspections	Cars	Percentage of		Cars	Percentage of	
		Rein- spections	Total Cars Inspected		Rein- spections	Total Cars Inspected
Left as Graded.....				33	80.49	1.66
Grades Raised.....				8	19.51	0.40
Grades Lowered.....						
Dockage Raised.....						
Dockage Lowered.....						
Total.....				41	100.00	2.06
					Churchill	
Cars Inspected.....					3,875	
Cars Reinspected.....					Nil	

RECAPITULATION OF RE-INSPECTIONS

Total Cars Inspected.....		246,264	
Total Cars Re-inspected.....		44,569	18.10%
	Cars	Percentage of	
		Rein- spections	Total Inspections
Left as Graded.....	23,496	52.72	9.54
Grades Raised.....	9,224	20.69	3.75
Grades Lowered.....	869	1.95	0.35
Dockage Raised.....	1,903	4.27	0.77
Dockage Lowered.....	9,077	20.37	3.69
Total.....	44,569	100.00	18.10

SUMMARY OF CARS APPEALED

	Winnipeg		Edmonton		Calgary		Total	
	Cars	Percent	Cars	Percent	Cars	Percent	Cars	Percent
Left as Graded.....	190	95.48	182	86.26	473	83.27	845	86.40
Grades Raised.....	9	4.52	29	13.74	95	16.73	133	13.60
Grades Lowered.....								
Dockage Raised.....								
Dockage Lowered.....								
Total.....	199	100.00	211	100.00	568	100.00	978	100.00

PERCENTAGE OF APPEALS TO TOTAL INSPECTIONS

	Cars	Percent
Total Inspections.....	246,264	
Total Appeals.....	978	0.40
Total Grades Changed.....	133	0.054

GRAIN INSPECTED AND SHIPPED BY VESSEL AUGUST 1, 1949 to JULY 31, 1950

	Fort William and Port Arthur	Vancouver and Victoria	Churchill
	bushels	bushels	bushels
Wheat.....	165,328,239	61,357,557	5,527,535
Oats.....	41,274,953	761,483	
Barley.....	13,254,517	500,009	
Flaxseed.....	4,117,049		
Rye.....	9,630,032	80,000	
Screenings.....	3,299,262		
Mixed Grain.....	248,426		
Sample Grain.....	1,754		
Corn.....	6,153	107	
Buckwheat.....	1,746		

OUTWARD CARS INSPECTED CROP YEAR AUGUST 1, 1949 TO JULY 31, 1950, EX-PUBLIC, SEMI-PUBLIC
AND PRIVATE ELEVATORS

—	Winnipeg	Calgary	Edmonton	Moose Jaw	Saskatoon	Lethbridge	Vancouver	Fort William and Port Arthur	Churchill
Wheat.....	276	184	83	4	18	1	1,784	2,699	.....
Oats.....	1,150	59	228	161	8	.....	837	10,561	8
Barley.....	629	233	27	4	8	.....	260	4,116	.....
Flax.....	5	.....	.....	.....	6	.....	.....	489	.....
Rye.....	9	2	1	1	11	.....	5	197	.....
Mixed Grain.....	106	165	1	55	5	.....	9	301	.....
Corn.....	139	.....	.....	3	.....	.....	.....	4	.....
Screenings.....	395	310	2	181	312	.....	1,558	4,406	90
Oats Groats.....	.....	.....	.....	.....	.....	.....	.....	1	.....
Corn (U.S.A.).....	.....	.....	.....	.....	.....	.....	.....	76	.....
	2,709	953	342	499	368	1	4,453	22,870	98

EASTERN DIVISION

SUMMARIZED STATEMENT AUGUST 1, 1949 TO JULY 31, 1950

TOTAL INSPECTIONS

<i>Carloads—</i>		
Grain grown in the Eastern Division:	Cars	
At Montreal.....	317	
At Toronto.....	2,119	
At Chatham.....	7,071	
		9,507 cars
<i>Cargoes—</i>		
Grain grown in the Eastern Division:	Bushels	
At Montreal.....	593,503	
At Toronto.....	390,938	
At Chatham.....	593,244	
		1,577,685 bus.
<i>Cargoes—</i>		
Grain grown in United States	Bushels	
At Montreal.....	903,171	
		903,171 bus.
<i>Cargoes—</i>		
Grain grown in the Western Division:	Bushels	
At Montreal.....	92,875	92,875 bus.
		2,573,731 bus.

GRAIN SAMPLED BUT NOT INSPECTED (FEES) AUGUST 1, 1949 TO JULY 31, 1950

	Montreal	Toronto	Chatham
<i>Carloads—</i>			
Western Grain.....	95	1	
Eastern Grain.....	8		155
United States Grain.....	35		
Total.....	138	1	155

<i>Cargoes—</i>		Bushels	
Western Grain.....		529,582	
Eastern Grain.....		274,301	
United States Grain.....		6,110,732	
Argentina Grain.....		533,440	
			7,448,055 bus.

GRAIN SAMPLED BUT NOT INSPECTED (NO FEES) AUGUST 1, 1949 TO JULY 31, 1950

<i>Cargoes—</i>		Bushels	
Western Grain (Export).....		101,794,834	
Western Grain (Export in bags).....		674,596	
Western Grain (Inward).....		55,042,182	
			157,511,612 bus.
Mixed Grain and Screenings.....			629,725 lbs.
<i>Cargoes—</i>		Bushels	Bushels
Eastern Grain (Export).....		335,524	
Eastern Grain (Export, in bags).....		113,532	
Eastern Grain (Inwards).....		80,452	
			529,508
United States Grain (Export).....		9,516,187	
United States Grain (Export, in bags).....		7,826	
United States Grain (Inward).....		9,706,587	
			19,230,600
Mixed Grain.....			8,405 lbs.
Argentina Grain (Export).....		137,072	
			137,072 bus.
Total.....			177,408,792 bus. 638,130 lbs.

SUMMARIZED STATEMENT, AUGUST 1, 1949 TO JULY 31, 1950

RECAPITULATION BY POINTS

	Bushels	Bushels
<i>At Montreal—</i>		
Export.....	76,284,220	
Export (in bags).....	408,173	
Inwards.....	64,829,221	
	<u>141,521,614</u>	
Mixed Grain.....		73,800 lbs.
<i>At Sorel—</i>		
Export.....	6,085,281	
	<u>6,085,281</u>	
<i>At Three Rivers—</i>		
Export.....	7,330,306	
	<u>7,330,306</u>	
<i>At Quebec—</i>		
Export.....	4,554,852	
Export (in bags).....	4,867	
	<u>4,559,719</u>	
<i>At Halifax—</i>		
Export.....	6,253,098	
	<u>6,253,098</u>	
<i>At West St. John—</i>		
Export.....	11,275,860	
Export (in bags).....	382,914	
	<u>11,658,774</u>	
Screenings.....		564,330 lbs.
Total Bushels.....	177,408,792	
Total Pounds.....	638,130	

GRADES OF CARLOADS INSPECTED

	Montreal	Toronto	Chatham	Total
<i>Wheat—</i>				
1 C.E. Red Winter.....			9	9
2 C.E. Red Winter.....			3	3
1 C.E. White Winter.....	13	60	28	101
2 C.E. White Winter.....	16	304	26	34
3 C.E. White Winter.....	3	2	1	
1 C.E. Mixed Winter.....	10	80	195	285
2 C.E. Mixed Winter.....	25	425	379	829
3 C.E. Mixed Winter.....	5	5	26	36
4 C.E. Mixed Winter.....		2	2	4
Tough.....	22	244	684	950
Damp.....		2	4	6
Smutty.....	8	60	21	89
Sample.....	3	22	2	27
<i>Oats—</i>				
2 C.E. White.....			3	3
3 C.E.....		1	5	6
Mixed Feed Oats.....	20	68		88
<i>Barley—</i>				
2 C.E. Six-Row.....			2	2
3 C.E. Six-Row.....		11	25	36
4 C.E.....		3	2	5
1 Feed.....	32			32
2 Feed.....	36	9		45
3 Feed.....	41	224		265
Tough.....	1	3	15	19
Sample.....		2	1	3
<i>Rye—</i>				
2 C.E.....		8	43	51
3 C.E.....			7	7
4 C.E.....			2	2
Tough.....		5	51	56

GRADES OF CARLOADS INSPECTED—*Concluded*

	Montreal	Toronto	Chatham	Total
<i>Mixed Grain—</i>				
3 C.E.		1		1
3 C.W.		1		1
<i>Buckwheat—</i>				
1 C.E.	1			1
2 C.E.	12	2	1	15
2 C.E. Moist and Heating	1			1
Tough	3	2	4	9
Damp	1	6	13	20
Sample		2		2
<i>Corn—</i>				
Extra Dry 1 C.E. Yellow	2		368	370
1 C.E. Yellow	26	2	804	832
Extra Dry 2 C.E. Yellow	1	1	109	111
2 C.E. Yellow	13	17	206	236
Extra Dry 3 C.E. Yellow			46	46
3 C.E. Yellow		11	75	86
Extra Dry 4 C.E. Yellow	1	1	1	3
4 C.E. Yellow	1		6	7
5 C.E. Yellow	1		4	5
1 C.E. Yellow Flint and Dent			1	1
2 C.E. Yellow Flint and Dent			1	1
Extra Dry 1 C.E. White			33	33
1 C.E. White			20	20
Extra Dry 2 C.E. White			32	32
2 C.E. White			16	16
Extra Dry 3 C.E. White			11	11
3 C.E. White			4	4
Extra Dry 4 C.E. White			1	1
4 C.E. White			1	1
Extra Dry 1 C.E. Mixed			1	1
1 C.E. Mixed			3	3
Extra Dry 2 C.E. Mixed			2	2
4 C.E. Mixed			1	1
Tough		1	224	225
Damp	1	7	1,342	1,350
Moist		9	786	795
Wet		1	9	10
Sample	5		3	8
<i>Beans—</i>				
1 C.E. Pea Beans			63	63
2 C.E. Pea Beans	2		140	142
3 C.E. Pea Beans	1	1	50	52
4 C.E. Pea Beans			20	20
4 C.E. Cranberry			1	1
2 C.E. Yelloweyes			4	4
3 C.E. Yelloweyes			4	4
4 C.E. Yelloweyes			3	3
2 C.E. Light Red Kidney			4	4
Tough	2		309	311
Damp	1		11	12
Sample	1			1
<i>Soybeans—</i>				
1 Can. Yellow		360	467	827
2 Can. Yellow		26	47	73
3 Can. Yellow		2	6	8
Tough		115	272	387
Damp		2	3	5
Moist			1	1
Sample				
<i>Peas—</i>				
1 C.E. White			1	1
<i>Flax—</i>				
1 C.E.		5		5
2 C.E.		1	1	2
3 C.E.	1	2		3
Tough	5	1		6
Totals	317	2,119	7,071	9,507

APPENDIX No. 6

FORT WILLIAM, ONTARIO,
December 7, 1950.

A. T. CALDER, Esquire,
Secretary,
Board of Grain Commissioners,
Winnipeg, Manitoba.

DEAR SIR,—I have the honour to submit herewith the following report of the Grain Weighing Branch of the Board for the crop year 1949-50.

WEIGHING SERVICES

This branch supplied weighing services at all Public Terminal, Semi-Public Terminal and Private Terminal Elevators licensed by the Board in the Western Division for the purpose of weighing all grain received into and shipped out of these elevators, as required under Section 91 and 123 of the Act. Weighing services were also supplied when required at Mill Elevators licensed by the Board. In the Eastern Division weighing services are available, for weighing domestic shipments, at elevators licensed by the Board as Eastern Elevators at the following points on a fees basis: Port McNicoll, Midland, Owen Sound, Goderich, Toronto, Sarnia and Montreal.

MAINTENANCE OF EQUIPMENT

All equipment used for weighing, receiving, shipping and transferring grain in licensed terminal elevators has been maintained in good condition and has been regularly inspected by officers of this Branch during the year. Particular attention has been given to the inspection of the dust-control systems that have been and are being installed in Terminal and Eastern Elevators to see that they are functioning in a proper manner and not affecting the proper weighing of grain received into and shipped out of these elevators.

INSPECTION OF SCALES

Under my authority as Inspector of Weights and Measures for Terminal elevator scales and with the help of my assistant, the annual inspection of scales in the following elevators in the Western Division has been carried out in accordance with the Weights and Measures Act and regulations respecting Weights and Measures, P.C. 3459, dated August 19, 1948 and for which certificates of verification were issued; all scales in elevators licensed by the Board at Port Arthur and Fort William; Canadian Government Interior Elevators; National Harbours Board Elevator, Port Churchill and those elevators loading to tide water at Pacific Coast.

Semi-annual inspection of as many of the above scales as possible was made to ensure their continued accuracy, also special inspections when considered necessary.

The annual inspection of scales in elevators licensed as Eastern Elevators in the Eastern Division were inspected, in accordance with the Act, and located at the following points: Port McNicoll, Midland, Collingwood, Owen Sound, Goderich, Sarnia, Walkerville, Toronto, Kingston, Prescott, Montreal, Sorel, Three Rivers, Quebec, Halifax, Saint John and West Saint John.

Due to the number of complaints received on outturns of cargoes, several special inspections were made on some of the above scales and in some cases, settlement of complaint arranged.

CAR SHORTAGES

Very few complaints were received on the outturns of cars unloaded at Terminal elevators during the crop year. Complaints received were investigated and where the investigation warranted it, adjustments were made or recommended.

VESSEL SHIPMENTS

During the crop year there were loaded at the Lakehead 1,226 cargoes; at Vancouver, 291 cargoes and at Churchill, 16 cargoes. There is enclosed statement showing the average reported shortage of pounds per thousand bushels on the various grain shipments loaded into vessels at Fort William and Port Arthur during the crop year, 1949-50 and unloaded at Canadian and American Ports, and you will note therefrom that the grand totals for the crop year showing the reported loss of pounds per thousand bushels are not very satisfactory. However, acting on the Board's instructions, special weighing crews proceeded to some Eastern ports shortly after the opening of navigation in 1950 and under the supervision of the Assistant Chief Weighmaster checked several cargoes being weighed into certain Eastern Elevators with satisfactory results. At two of the elevators visited, mechanical defects in the unloading equipment were discovered and repairs made before further cargoes were weighed into these two elevators.

The following is statement showing the quantities of various grains loaded into vessels at Port Arthur and Fort William from the opening of navigation to July 30, 1949 and from the opening of navigation to July 31, 1950 showing the reported loss in pounds per 1,000 bushels, and it will be noted that the loss per 1,000 bushels for all grains in the period under review was less in 1950 than in 1949.

	1949	
	Total Bills-of-Lading	Shortage of lbs. per 1,000 Bus.
Wheat.....	60,756,332-00	44.13
Durum Wheat.....	5,451,820-20	80.05
Oats.....	9,744,671-05	30.45
Barley.....	10,783,003-36	52.04
Rye.....	5,280,002-43	76.75
Flaxseed.....	4,258,257-53	43.29
	1950	
	Total Bills-of-Lading	Shortage of lbs. per 1,000 Bus.
Wheat.....	66,785,582-10	35.33
Durum Wheat.....	3,119,839-20	13.77
Oats.....	8,122,091-01	26.11
Barley.....	10,147,633-05	43.49
Rye.....	2,772,374-04	58.16
Flaxseed.....	438,377-25	19.47

Complaints received on the outturns of some cargoes shipped from Port Arthur and Fort William were thoroughly investigated at the loading and unloading ports (when unloaded at Canadian Ports) and reports covering the investigation forwarded to the Board with recommendations where it was proven that mishap had occurred in handling the shipment, and recovery was made on several complaints.

Complaints received on the outturns of some overseas shipments were as follows: Lower St. Lawrence Ports, 8; Atlantic Ports, 2; Churchill, 1 and Vancouver, 1. Loading of these cargoes were investigated and reports submitted to the Board. In view of the time it takes to complete these investigations, some complaints are still outstanding.

ANNUAL AUDITS

The annual audits of grain in store in licensed elevators in the Eastern and Western Divisions were carried out as required under the Act. In the Western Division all grain in store in Public Terminal and Semi-Public Terminal Elevators was weighed over and in Private Terminal elevators, the first four grades of Wheat and the grades of No. 1 and No. 2 Canada Western Garnet Wheat, as specified in Schedule I of the Act, were weighed over. Total quantities weighed over in the above elevators were 19,824,257 bushels. In the Eastern Division all grain in store in elevators licensed as Eastern Elevators was weighed over as required under the Act. Total quantities of all grain weighed over was 31,928,032 bushels.

Statements of the correct quantities of the various grades in store in each of the above elevators weighed over were prepared by this Branch and forwarded to the Board to permit of the adjustments of outstanding warehouse receipts in Public and Semi-Public Terminal Elevators; and the establishment of overages in Terminal Elevators and Eastern Elevators; in accordance with the provisions of Section 138 and 138A of the Canada Grain Act.

STAFF

It is with regret that we record the death of Mr. C. Lea, Grain Weighman, Fort William on September 16, 1950 and Mr. C. M. Duffus, Grain Weighman, Saskatoon on October 9, 1950. Mr. Lea and Mr. Duffus were most competent and efficient officers of this Branch.

The following employees of this Branch retired on the dates effective below:

F. G. Stevens	Weighmaster,	Winnipeg	Sept. 1/49,	37 years service
W. T. Gough	Weighman	Fort William	July 8/50,	33 years service
E. M. Hueston	Weighman	Fort William	May 31/50,	35 years service
H. C. McKeown	Weighman	Fort William	Sept. 2/49,	29 years service
R. A. Field	Weighman	Keewatin	May 1/49,	29 years service

Respectfully submitted,

S. M. CAPON,
Chief Weighmaster.

GRAIN COMMISSION

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GROSS HANDLINGS OF ALL GRAINS, WEST OF FORT WILLIAM-PORT ARTHUR,
DURING CROP YEAR 1949-1950

RECEIPTS

Point	Wheat	Oats	Barley	Rye	Flaxseed	Canadian Corn	U.S.A. Wheat	U.S.A. Corn	Canadian Miscel-laneous
	bus.	bus.	bus.	bus.	bus.	bus.	bus.	bus.	lbs.
Vancouver and New Westminster.....	74,218,803	1,771,481	1,019,476	62,977	77			1,623,663	6,949,890
Victoria.....								900,395	
Prince Rupert.....									
Churchill.....	6,952,235	740							
Calgary.....	374,851	82,884	1,940,579	78,516				6,004	117,430
Edmonton.....	136,945	270,377	18,903	1,762		1,498			3,370
Lethbridge.....	13,408		512		539		2,146		11,330
Moose Jaw.....	27,622	4,651	703	2,081		12,591			12,556,710
Saskatoon.....	3,081	1,935							
North Transcona.....	189,845	53,534	20,538	8,731	232				18,110,281
	81,916,790	2,185,602	3,000,711	154,067	848	14,089	2,146	2,530,062	37,749,011

SHIPMENTS

Vancouver and New Westminster.....	64,970,163	2,706,122	946,292	86,911					117,187,630
Victoria.....									
Prince Rupert.....									
Churchill.....	5,527,535	9,417							7,042,234
Calgary.....	383,157	79,942	2,074,125	53,834				20,814	334,390
Edmonton.....	171,686	256,945	17,375	1,678		4,928		14	665,435
Lethbridge.....	13,776	108	415		489		2,146		46,100
Moose Jaw.....	27,323	4,661	713	2,081		9,084			16,071,460
Saskatoon.....	3,258	1,934			11,437				53,360
North Transcona.....	189,845	56,999	19,955	8,731	232				2,863,220
	71,286,743	3,116,128	3,058,875	153,235	12,158	14,012	2,146	20,828	144,263,829

Following are the quantities of the various grains which were weighed into and out of elevators at the following points in the Western Division during the crop year ending July 31, 1950

FORT WILLIAM-PORT ARTHUR

RECEIPTS

Grain	Receipts from West	Transfer Receipts		Total
		Rail	Vessel	
	Gross Bus.	Gross Bus.	Gross Bus.	Gross Bus.
Wheat.....	187,687,103	267,789	25,848	187,980,740
Oats.....	62,976,056	681,847	60,927	63,718,830
Barley.....	41,987,706	580,543	64,791	42,633,040
Rye.....	9,520,726	276,688		9,797,414
Flaxseed.....	1,573,175	578,765	13,839	2,165,779
Canadian Western Corn.....	7,797			7,797
Canadian Western Buckwheat.....	8,484			8,484
U.S.A. Corn.....	107,645	80,752		188,397
Mixed Grain ¹	739,675	140,180	8,569	888,424
All Screenings ²	733,069	692,859		1,425,928
Grand Total.....				308,814,833

¹Mixed Grain in Bushels of 50 lbs.

²Screenings in Bushels of 48 lbs.

SHIPMENTS

Grain	Vessel	Rail	Transfer Shipments		Total
			Rail	Vessel	
	Gross Bus.	Gross Bus.	Gross Bus.	Gross Bus.	Gross Bus.
Wheat.....	165,293,261	4,461,134	278,473	25,848	170,058,716
Oats.....	40,961,774	21,993,175	667,265	60,927	63,683,141
Barley.....	33,646,421	7,802,239	590,890	28,711	42,068,261
Rye.....	9,623,896	103,304	278,336		10,005,536
Flaxseed.....	4,261,172	268,955	546,876	13,839	5,090,842
Canadian Western Corn.....		6,141			6,141
Canadian Western Buckwheat.....		1,746			1,746
U.S.A. Corn.....		100,927	80,929		181,856
Mixed Grain.....	234,362	465,065	147,987	8,569	855,983
Mixed Feed Oats Groats ³		3,475			3,475
All Screenings.....	3,950,677	6,811,914	710,861		11,473,452
Grand Total.....					303,429,149

³Mixed Feed Oats Groats in Bushels of 36 lbs.

TOTAL CARS WEIGHED AT INTERIOR POINTS OTHER THAN GOVERNMENT
ELEVATORS, CROP YEAR 1949-1950

Keewatin.....	4,605
Winnipeg.....	10,861
Saskatoon.....	6,002
Moose Jaw.....	4,969
Calgary.....	8,624
Edmonton.....	1,307
Medicine Hat.....	3,852
Lethbridge.....	164
Churchill.....	3,981
Total.....	44,365

REPORT OF CARS ARRIVING AT DESTINATION, LEAKING, NOT PROTECTED BY
SEALS, AND WITH DEFECTIVE SEALS, CROP YEAR 1949-1950

CANADIAN PACIFIC RAILWAY

	Leaking Cars	Missing Seals	Defective Seals
Lakehead Elevators.....	15,909	1,201	280
Elevators, excluding Lakehead.....	6,652	862	476
Total.....	22,561	2,063	756

CANADIAN NATIONAL RAILWAY

	Leaking Cars	Missing Seals	Defective Seals
Lakehead Elevators.....	13,272	661	178
Elevators, excluding Lakehead.....	2,957	331	126
Total.....	16,229	992	304
Total both roads.....	38,790	3,055	1,060
U.S.A. Corn moved to Vancouver Via Great Northern in foreign cars.....	191		

CARS REPORTED LEAKING AND WITH MISSING AND DEFECTIVE SEALS IN
WINNIPEG RAILWAY YARDS

	Leaking Cars	Missing and Defective Seals
C.P.R. Yards.....	4,262	1,053
C.N.R. Yards.....	1,577	651
Total.....	5,839	1,704

REPORT OF THE AVERAGE REPORTED SHORTAGES OF POUNDS PER 1,000 BUSHELS
ON THE VARIOUS GRAINS LOADED AT FORT WILLIAM AND PORT ARTHUR
AND UNLOADED CANADIAN AND AMERICAN PORTS

CANADIAN PORTS

Grain	Bushels	Pounds per 1,000 Bushels
Wheat.....	142,903,947-50	Short 42.09
Durum Wheat.....	9,560,021-30	Short 38.84
Oats.....	31,221,517-30	Short 23.56
Barley.....	17,600,957-21	Short 32.51
Rye.....	77,413-02	Short 119.02
Flaxseed.....	4,262,163-50	Short 34.49
Mixed Grain.....	7,578,240 lbs.	Short 1.137 lbs. per 1,000 lbs.
Sample Grain.....	29,974,789 lbs.	Short 0.695 lbs. per 1,000 lbs.
Screenings.....	11,537-1670	Short 3.159 lbs. per ton

AMERICAN PORTS

Grain	Bushels	Pounds per 1,000 Bushels
Wheat.....	12,295,631-00	Short 51.44
Oats.....	9,982,505-07	Short 33.04
Barley.....	16,195,221-09	Short 68.87
Rye.....	9,609,831-54	Short 76.45
Screenings.....	83,217-1840	Short 0.182 lbs. per ton

GRAND TOTALS—GRAIN SHIPPED

Grain	Bushels	Pounds per 1,000 Bushels
Wheat.....	155,398,702-40	Short 42.83
Durum Wheat.....	9,560,021-30	Short 38.84
Oats.....	41,204,023-03	Short 25.86
Barley.....	33,796,178-30	Short 49.93
Rye.....	9,687,245-00	Short 76.79
Flaxseed.....	4,280,260-18	Short 34.49
Mixed Grain.....	7,578,240 lbs.	Short 1.137 lbs. per 1,000 lbs.
Sample Grain.....	29,974,789 lbs.	Short 0.695 lbs. per 1,000 lbs.
Screenings.....	94,755-1510	Short 0.544 lbs. per ton

SHIPMENTS—EUROPE DIRECT

Grain	Bushels
Wheat.....	199,123-50 (No reports of out-
Flaxseed.....	18,096-24 turns received. These
	figures not included in
	Bills of Lading totals
	used in calculating
	average shortage per
	1,000 bushels.)

REPORT OF TOTAL NUMBER OF CARS OF GRAIN WEIGHED AT ALL POINTS, AND
ALSO THE PERCENTAGE OF SUCH CARS FOUND TO BE LEAKING OR
WITH DEFECTIVE SEALS, CROP YEAR 1949-1950

Total number of Cars Weighed.....	285,394
Total Number of Cars Leaking.....	38,790
Percentage of Cars Leaking.....	13.599
Total Number of Cars with Missing and Defective Seals.....	4,115
Percentage of Cars with Missing and Defective Seals.....	1.442

APPENDIX No. 7

FORT WILLIAM, ONT.,
November 16, 1950.

The Board of Grain Commissioners,
WINNIPEG, MANITOBA.

SIRS,—I beg to submit the following report of the operations of the Canadian Government Elevators for the crop year 1949-50.

ELEVATORS OPERATED

The interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge were operated during the year as public terminal elevators. The elevator at Prince Rupert was licensed as a public terminal but no grain was received into or shipped from the elevator during the year.

ELEVATOR LEASED

Under the terms of the lease covering the five year period ended July 31, 1949, a renewal agreement under the same terms and conditions, except as to renewal, was entered into with McCabe Grain Company Limited covering the operation of the elevator at Port Arthur for a term of five years from August 1, 1949.

TARIFF OF CHARGES

Except for one or two minor changes, the tariff of charges remained substantially the same as that in effect the previous year. The free storage period was reduced from fifteen days to ten days.

VOLUME OF GRAIN HANDLED

The total amount of grain received into the elevators, 3,021,205 bushels, was 10,604 bushels less than the previous year, decreases at Moose Jaw, Saskatoon, Edmonton and Lethbridge being practically offset by an increase of a quarter of a million bushels at Calgary.

The amounts received at each elevator in the last two crop years are shown in the following statement:

Elevator	1948-49	1949-50	Decrease	Increase
	Bus.	Bus.	Bus.	Bus.
Moose Jaw.....	106,914	47,441	59,473	.....
Saskatoon.....	165,468	54,190	111,278	.....
Calgary.....	2,227,743	2,480,118	.....	252,375
Edmonton.....	458,078	423,129	34,949	.....
Lethbridge.....	73,606	16,327	57,279	.....
Prince Rupert.....	Nil	Nil	Nil	.....
	3,031,809	3,021,205	10,604	.....

Shipments of grain from all elevators during the year amounted to 3,156,037 bushels and grain in store at July 31, 1950, was 193,545 bushels.

In addition to the amounts referred to above there was received into the Moose Jaw elevator 12,525,340 pounds of Rapeseed and 14,901,755 pounds was shipped. The amount in store at the end of the crop year was 685,015 pounds.

Present indications are that the volume of wheat moving into the interior terminal elevators during the crop year 1950-51 will be substantially greater than in the past few years.

MAINTENANCE OF BUILDINGS AND EQUIPMENT

The buildings, equipment and trackage at all points have been maintained in good condition.

The installation of dust control equipment in the Calgary elevator is practically completed. Work is proceeding with the installation of fire doors between the workhouse and storage annex.

Extensive replacement of firebreak walls and bracing under the dock at Prince Rupert is now underway and should be completed before the end of the year.

A new passenger elevator is being installed at the Edmonton elevator and negotiations are underway for a similar installation at Port Arthur.

STAFF

Staffs at all points have been maintained at the minimum of requirements for efficient operation of the plants.

Mr. T. W. McCann, Superintendent of the Moose Jaw elevator since 1938, retired after more than 34 years meritorious service.

Seven other employees were retired on superannuation after varying periods of service, the resulting vacancies being filled by promotion.

FINANCIAL RESULTS OF OPERATIONS

During the fiscal year ended March 31, 1950, earnings from all sources totalled \$282,615.92, a decrease of \$67,144.15 compared with the previous year. All regular sources of earnings from operations showed decreases but revenue from rental of Port Arthur elevator was \$19,561.64 higher.

Operating expenditures totalled \$501,115.35, a reduction of \$71,209.83 from the previous year.

The net result of operations was a deficit of \$218,499.33, a decrease of \$4,065.78 from the deficit of the previous year.

As in former years no provision was made in the financial statements to cover depreciation of plants and equipment, expenditures for maintenance of which are included in operating costs.

Respectfully submitted,

R. HETHERINGTON,
General Manager.

APPENDIX No. 8

REPORT OF THE CHIEF CHEMIST

WINNIPEG, MAN.,

December 1, 1950.

Board of Grain Commissioners,
WINNIPEG, MANITOBA.

SIRS,—I have the honour to submit the following report on the Grain Research Laboratory for the year 1950.

The catastrophic frost in August did great damage to the quality of Canadian cereal crops. About half the wheat crop was frozen when it was still immature, and samples of No. 5 Wheat, and especially of No. 6 and Feed Wheat, therefore contain immature and green as well as frosted kernels. This type of wheat gives reduced yields of flour of lower baking quality. Severe frost has a similar effect on the milling and macaroni making qualities of durum wheat. In malting barley, frost may kill the germ and prevent germination with serious effects on malting quality.

In co-operation with the Inspection Branch, the Laboratory surveyed the milling and baking qualities of low grades of wheat for the meeting of the Committee on Western Grain Standards held on September 28. As the crop was late and the meeting early, it was necessary to organize and carry through a large amount of additional work for this meeting; much overtime was required. Following the meeting, a press report was released that dealt in simple language with the Laboratory's finding on the quality of wheat degraded for frost damage. Presentation of the facts in this report served to dispel a certain uneasiness with regard to the grading system that had arisen in the minds of some farmers in districts where severe frosts are infrequent.

Preparations for the second meeting of the Committee, held on October 24 to deal with remaining grades, presented no abnormal difficulties. Protein maps and crop bulletins were prepared, printed, and distributed, as usual. The crop bulletin on wheat quality was in great demand. Although the first printing was larger than formerly, a second printing had to be made within a few days, and even this proved inadequate to meet all requests for additional copies.

The Commissioners and the Chief Chemist have spoken at a number of farmers' meetings throughout the West. Loaves and flour slicks were prepared by the Laboratory and exhibited at most of these meetings. These demonstrations have proved most effective in explaining to farmers the effects of frost on the milling and baking qualities of wheat.

As the fall of 1950 was one of the wettest on record, enormous quantities of tough and damp grain are being dried in terminal elevators. As a result, the Laboratory has had to keep a miller and a technician in the baking laboratory working full time on testing the quality of dried grains. This assistance has been invaluable to the Chief Inspector in maintaining efficient supervision of terminal drying operations.

Perennial investigations of crop quality, of the quality of grain marketed through various channels, and of the comparative merits of new varieties have been continued. Further studies of electrical moisture meters, particularly of the Canadian instrument manufactured by the Halross Instrument Corporation Ltd., were undertaken during the year, and another comparative study of this and other new meters is in progress. An investigation has been made of the

reliability of automatic samplers used in terminal elevators. Comparisons were undertaken of the milling and baking qualities of strong Australian varieties of bread wheat with those of Canadian varieties, when grown in Canada under comparable conditions. Compilation of data and preparation of reports on some of these projects has been delayed by press of other work.

Steady progress has been made with the program of basic research. Major projects include studies of: rates of relaxation of stress in dough; mechanism of improver action in dough; carbon dioxide diffusion through dough; carbohydrate-protein interactions in flour and dough; kinetics of pigment destructions, and other factors affecting macaroni making quality of durum wheats; the non-starch carbohydrates of malt, of the enzymes that attack them, and of their relation to wort viscosity; and chemical studies of "glutens" prepared from wheat, rye, and barley.

Last spring, at the request of the Board, the National Research Council appointed a committee to review the activities of the Research Laboratory. Members of the committee were: Dr. W. H. Cook, Director, Division of Applied Biology, National Research Council; Dr. R. K. Larmour, Director of Research, Maple Leaf Milling Co. Ltd.; Dr. K. W. Neatby, Director, Science Service, Department of Agriculture; Dr. E. Y. Spencer, Professor of Cereal Chemistry, University of Saskatchewan; and Dr. W. P. Thompson, President of the University of Saskatchewan. The committee's report contains a number of recommendations which, if implemented, will make a substantial improvement in laboratory facilities.

The writer visited the United Kingdom during July and August to keep contact with research institutions and to study changes in milling and baking industries. The increasing dependence of both industries on research and scientific control of operations is strikingly apparent.

A number of staff changes occurred during the year. Dr. A. E. Paull resigned in June to take a position with the Abitibi Power and Paper Company in Toronto. Messrs. Dempster and Bass were given leave of absence in October to continue post-graduate studies at McGill University and the University of Toronto; Mr. Templin joined the professional staff as a temporary replacement. Among the sub-professional staff, Messrs. Johannes and Hill, and Mrs. Dalik resigned. Messrs. Stitt and Omichinski and Miss Mackie were appointed as replacements. It is a pleasure to report that Mr. H. P. Schreiber received the degree of M.Sc. from the University of Manitoba last spring for research done in the Laboratory under the direction of Dr. I. Hlynka of our staff and of Dr. A. D. Robinson of the University.

A detailed report of the work of the Grain Research Laboratory has been prepared. In accordance with past practice, it is recommended that this report be published in full to put on record data on the quality of the more important Canadian grain crops and progress reports on laboratory investigations.

Respectfully submitted,

J. ANSEL ANDERSON,
Chief Chemist.

APPENDIX No. 9

STATEMENT OF REVENUE AND EXPENDITURE FOR
FISCAL YEAR ENDING MARCH 31, 1950

(a) WINNIPEG—

Revenue

Executive Offices—

Fines.....	445 00	
Previous Year's Expend.....	7 18	
		452 18

License and Bonding Fees.....	28,075 00	
Less Fees Refunded.....	79 00	
		27,996 00

Registration Fees.....	12,423 00	
Cancellation Fees.....	12,311 93	
		24,734 93

Grain Research Laboratory—

Previous year's Expend.....		2 58
-----------------------------	--	------

Appeal Fees.....	699 00	
Less Fees Refunded.....	42 00	
		657 00

Inspection Fees.....	310,533 01	
Overtime.....	586 25	
Splits—Cargo.....	321 10	
Samples Sold.....	12,409 30	
Sampling Fees.....	5,614 00	
Express Charges.....	2,188 70	
Previous Year's Expend.....	4 27	
		331,656 63

Weighing Fees.....	18,087 77	
Overtime.....	131 20	
Condition Reports.....	233 25	
		18,452 22

403,951 54

*Expenditure—**Board and Executive Offices*

Salaries—

Commission and Secretary.....	34,133 26	
Secretary's Office.....	22,442 67	
Rent.....	5,550 30	
Travelling Expenses.....	2,857 02	
General Expenses.....	4,749 92	
Printing and Stationery.....	5,038 59	
		74,771 76

License and Bonding

Salaries.....	16,102 84	
Rent.....	1,450 00	
General Expenses.....	680 99	
Printing and Stationery.....	3,731 85	
		21,965 68

Grain and Research Laboratory

Salaries.....	91,457 45	
Rent.....	12,639 70	
Travelling Expenses.....	1,688 02	
General Expenses.....	16,905 49	
Printing and Stationery.....	2,433 59	
		125,124 25

Registration

Salaries.....	19,590 74	
Rent.....	1,785 60	
General Expenses.....	1,017 79	
Printing and Stationery.....	81 91	
		22,476 04

Accounts

Salaries.....	11,713 76	
General Expenses.....	253 08	
Printing and Stationery.....	780 35	
		12,747 19

Inspection Branch

Salaries.....	384,589 36	
Rent.....	20,392 00	
Travelling Expenses.....	1,411 79	
General Expenses.....	16,246 15	
Printing and Stationery.....	5,144 72	
		427,784 02

GRAIN COMMISSION

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STATEMENT OF REVENUE AND EXPENDITURE FOR FISCAL YEAR
ENDING MARCH 31, 1950—Continued

(a) WINNIPEG—Concluded

Expenditure—Con.

Weighing Branch

Salaries.....	38,631 02	
Rent.....	1,674 00	
General Expenses.....	545 97	
Printing and Stationery.....	110 31	
	<hr/>	40,961 30

Grain Appeal Tribunal

Salaries.....	4,859 36	
Rent.....	471 20	
General Expenses.....	565 00	
	<hr/>	5,895 56

Grain Standard Committee

Travelling Expenses.....	1,925 80	
General Expenses.....	1,700 00	
	<hr/>	3,625 80

735,351 60

(b) CHURCHILL—

Revenue

Inspection Fees.....	16,941 07	
Overtime.....	179 10	
	<hr/>	17,120 17
Weighing Fees.....	8,789 54	
Overtime.....	176 45	
	<hr/>	8,965 99

26,086 16

Expenditure

Inspection Branch

Salaries.....	6,375 41	
Travelling Expenses.....	2,747 35	
General Expenses.....	118 25	
	<hr/>	9,241 01

Weighing Branch

Salaries.....	3,885 36	
Travelling Expenses.....	1,997 20	
General Expenses.....	16 35	
	<hr/>	5,898 91

15,139 92

(c) KEEWATIN—

Revenue

Inspection Fees.....	4,560 00	
Weighing Fees.....	5,052 36	
	<hr/>	9,612 36

Expenditure

Salaries—Inspection Branch.....	4,560 00	
Salaries—Weighing Branch.....	5,005 64	
General Expenses—Weighing Branch.....	46 72	
	<hr/>	5,052 36
	<hr/>	9,612 36

(d) SASKATOON

Revenue

Inspection Fees.....	10,890 13	
Overtime.....	47 65	
Samples Sold.....	596 84	
	<hr/>	11,534 62
Weighing Fees.....	8,888 34	
Overtime.....	92 80	
	<hr/>	8,981 14

20,515 76

Expenditure

Assistant Commissioner's Office

Salaries.....	9,780 00	
Travelling Expenses.....	1,685 39	
General Expenses.....	126 87	
Printing and Stationery.....	96 14	
	<hr/>	11,688 40

STATEMENT OF REVENUE AND EXPENDITURE FOR FISCAL YEAR
ENDING MARCH 31, 1950—Continued

(d) SASKATOON—Concluded

*Expenditure—Con.**Inspection Branch*

Salaries.....	21,927 90	
Rent.....	877 00	
General Expenses.....	799 43	
Printing and Stationery.....	308 19	
	<hr/>	23,912 52

Weighing Branch

Salaries.....	16,233 10	
General Expenses.....	8 00	
	<hr/>	16,241 10

51,842 02

(e) MOOSE JAW

Revenue

Inspection Fees.....	9,479 32	
Overtime.....	193 40	
Samples Sold.....	511 70	
Sampling Fees.....	9 00	
	<hr/>	10,193 42
Weighing Fees.....	5,723 05	
Overtime.....	432 40	
	<hr/>	6,155 45

16,348 87

*Expenditure**Inspection Branch*

Salaries.....	18,483 53	
Rent.....	1,125 00	
Travelling Expenses.....	741 51	
General Expenses.....	1,042 83	
Printing and Stationery.....	240 02	
	<hr/>	21,632 89

Weighing Branch

Salaries.....	11,303 50	
General Expenses.....	16 50	
	<hr/>	11,320 00

32,952 89

(f) MEDICINE HAT

*Revenue**Inspection Branch*

Inspection Fees.....	8,383 77	
Overtime.....	10 00	
Samples Sold.....	399 43	
	<hr/>	8,793 20

Weighing Branch

Weighing Fees.....	9,090 00	
Overtime.....	32 80	
Refund Prev. Year's Expend.....	100 00	
	<hr/>	9,222 80

18,016 00

*Expenditure**Inspection Branch*

Salaries.....	8,206 85	
Rent.....	540 00	
General Expenses.....	368 78	
Printing and Stationery.....	86 85	
	<hr/>	9,202 48

Weighing Branch

Salaries.....	9,120 75	
General Expenses.....	2 00	
	<hr/>	9,122 75

18,325 23

(g) LETHBRIDGE

Revenue

Inspection Fees.....	325 51	
Samples Sold.....	161 46	
	<hr/>	486 97
Weighing Fees.....		314 01
		<hr/>

800 98

GRAIN COMMISSION

69

STATEMENT OF REVENUE AND EXPENDITURE FOR FISCAL YEAR ENDING MARCH 31, 1950—Continued

(g) LETHBRIDGE—Concluded

Expenditure

Inspection Branch

Salaries.....	4,942 45	
Travelling Expenses.....	490 71	
General Expenses.....	32 25	
		5,465 41

Weighing Branch

Salaries.....	3,060 00	
Travelling Expenses.....	127 85	
General Expenses.....	9 00	
		3,196 85

8,662 26

(h) CALGARY

Revenue

Inspection Fees.....	56,646 46	
Samples Sold.....	2,585 98	
Express Charges.....	470 50	
Refund Previous Year's Expend.....	84	
		59,703 78
Weighing Fees.....	12,646 00	
Overtime.....	1,247 20	
		13,893 20
Appeal Fees.....	1,821 00	
Less Fees Refunded.....	297 00	
		1,524 00

75,120 98

Expenditure

Assistant Commissioner's Office

Salaries.....	9,780 00	
Rent.....	828 00	
Travelling Expenses.....	2,830 05	
General Expenses.....	334 30	
Printing and Stationery.....	35 39	
		13,807 74

Inspection Branch

Salaries.....	57,975 97	
Rent.....	3,000 00	
Travelling Expenses.....	465 70	
General Expenses.....	2,502 17	
Printing and Stationery.....	963 91	
		64,907 75

Weighing Branch

Salaries.....	29,006 60	
Rent.....	314 04	
General Expenses.....	237 12	
		29,557 76

Grain Appeal Board

Salaries.....	4,740 00	
Rent.....	420 00	
General Expenses.....	1,334 50	
Printing and Stationery.....	5 78	
		6,500 28

114,773 53

(i) EDMONTON

Revenue

Inspection Fees.....	44,948 84	
Samples Sold.....	1,497 20	
Sampling Fees.....	2 00	
Express Charges.....	226 75	
		46,674 79
Weighing Fees.....	5,737 88	
Overtime.....	51 20	
		5,789 08
Appeal Fees.....	636 00	
Less Fees Refunded.....	111 00	
		525 00

52,988 87

STATEMENT OF REVENUE AND EXPENDITURE FOR FISCAL YEAR
ENDING MARCH 31, 1950—*Continued*

(i) EDMONTON—*Concluded**Expenditure**Inspection Branch*

Salaries.....	62,741 12	
Rent.....	4,510 00	
Travelling Expenses.....	1,485 98	
General Expenses.....	2,512 18	
Printing and Stationery.....	1,061 98	
		72,311 26

Weighing Branch

Salaries.....	13,729 80	
General Expenses.....	213 01	
		13,942 81

Grain Appeal Board

Salaries.....	5,496 00	
Rent.....	600 00	
General Expenses.....	526 40	
Printing and Stationery.....	1 18	
		6,623 58

92,877 65

(j) VANCOUVER

Revenue

Inspection Fees.....	128,515 56	
Overtime.....	3,805 20	
Splits—Cargo.....	80	
Samples Sold.....	7,197 13	
Refund Previous Year's Expenditure.....	100 00	
		139,618 69
Weighing Fees.....	129,656 83	
Overtime.....	4,393 70	
		134,050 53
Registration Fees.....	3,230 16	
Cancellation Fees.....	3,139 82	
		6,369 98

280,039 20

*Expenditure**Inspection Branch*

Salaries.....	105,461 06	
Rent.....	6,250 75	
Travelling Expenses.....	445 45	
General Expenses.....	3,209 12	
Printing and Stationery.....	793 08	
		116,159 46

Weighing Branch

Salaries.....	102,469 92	
Rent.....	2,407 00	
Travelling Expenses.....	442 60	
General Expenses.....	1,713 46	
Printing and Stationery.....	112 75	
		107,145 73

Registration Branch

Salaries.....	5,535 00	
Rent.....	1,609 75	
Travelling Expenses.....	173 40	
General Expenses.....	610 02	
Printing and Stationery.....	7 86	
		7,936 03

231,241 22

(k) FORT WILLIAM

Revenue

Inspection Fees.....	478,878 62	
Overtime.....	12,313 40	
Samples Sold.....	15,437 93	
Jury Fees.....	364 59	
		506,994 54
Weighing Fees.....	468,592 16	
Overtime.....	8,896 80	
Jury Fees.....	42 00	
		477,530 96

984,525 50

STATEMENT OF REVENUE AND EXPENDITURE FOR FISCAL YEAR
ENDING MARCH 31, 1950—Continued

(k) FORT WILLIAM—Concluded

*Expenditure**Assistant Commissioner's Office*

Salaries.....	9,540 00	
Rent.....	624 00	
Travelling Expenses.....	295 05	
General Expenses.....	215 10	
		10,674 15

Inspection Branch

Salaries.....	461,651 91	
Rent.....	14,178 72	
Travelling Expenses.....	3,312 94	
General Expenses.....	10,287 87	
Printing and Stationery.....	7,025 63	
		496,457 07

Weighing Branch

Salaries.....	340,725 02	
Rent.....	2,833 22	
Travelling Expenses.....	15,545 50	
General Expenses.....	3,467 81	
Printing and Stationery.....	2,648 56	
		365,220 11

Statistical Branch

Salaries.....	54,111 13	
Rent.....	4,800 65	
Travelling Expenses.....	237 40	
General Expenses.....	2,669 54	
Printing and Stationery.....	3,580 18	
		65,398 90
		937,750 23

(l) TORONTO

Revenue

Inspection Fees.....	4,776 00	
Overtime.....	18 75	
Splits—Cargo.....	1 90	
Samples Sold.....	64 80	
Sampling Fees.....	24 00	
		4,885 45
		4,885 45

*Expenditure**Inspection Branch*

Salaries.....	6,378 00	
Rent.....	636 00	
General Expenses.....	282 54	
		7,296 54
		7,296 54

(m) MONTREAL

Revenue

Inspection Fees.....	6,204 53	
Overtime.....	263 55	
Splits—Cargo.....	638 40	
Samples Sold.....	396 76	
Sampling Fees.....	4,419 86	
Refund Previous Year's Expend.....	1 57	
		11,924 67
Weighing Fees.....	48 00	
Overtime.....	33 05	
		81 05
Registration Fees.....	3,937 15	
Cancellation Fees.....	3,818 63	
		7,755 78
		19,761 50

*Expenditure**Inspection Branch*

Salaries.....	52,391 47	
Rent.....	3,271 08	
Travelling Expenses.....	5,251 66	
General Expenses.....	900 68	
Printing and Stationery.....	845 13	
		62,660 02

STATEMENT OF REVENUE AND EXPENDITURE FOR FISCAL YEAR
ENDING MARCH 31, 1950—*Concluded*

(m) MONTREAL—*Concluded**Expenditure—Con.**Weighing Branch*

Salaries.....	3,032 50	
Rent.....	707 38	
Travelling Expenses.....	239 10	
General Expenses.....	130 50	
Printing and Stationery.....	234 53	
		<hr/> 4,344 01

Registration Branch

Salaries.....	7,670 00	
Rent.....	809 00	
Travelling Expenses.....	151 82	
General Expenses.....	186 26	
Printing and Stationery.....	60 79	
		<hr/> 8,877 87

75,881 90

(n) CHATHAM

Revenue

Inspection Fees.....	15,620 50	
Overtime.....	101 45	
Samples Sold.....	679 48	
Sampling Fees.....	22,169 29	
		<hr/> 38,570 72

38,570 72

*Expenditure**Inspection Branch*

Salaries.....	21,815 22	
Rent.....	828 00	
Travelling Expenses.....	14,940 54	
General Expenses.....	1,532 12	
Printing and Stationery.....	39 66	
		<hr/> 39,155 54

39,155 54

SUMMARY OF OPERATION BY BRANCHES

REVENUE

	Inspection	Weighing	Appeal Boards	Registration	License and Bonding	Statistical	Accounting	Research Laboratory	Grain Standards	Administration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.
Fees.....	1,096,703 32	672,625 94	2,706 00	38,860 69	27,996 00						1,838,891 95
Overtime.....	17,518 75	15,487 60									33,006 35
Sampling.....	32,238 15										32,238 15
Express Charges.....	2,885 95										2,885 95
Cargo Splits.....	962 20										962 20
Samples Sold.....	41,938 01										41,938 01
Condition Reports.....		233 25									233 25
Jury Fees.....	364 59	42 00									406 59
Fines.....											445 00
Previous Year's Expenditure.....	106 68	100 00						2 58		7 18	216 44
Total.....	1,192,717 65	688,488 70	2,706 00	38,860 69	27,996 00			2 58		452 18	1,951,223 89

EXPENDITURE

	Salaries.....	Rents.....	Travel.....	Expenses.....	Printing and Stationery	Total.....
	1,217,500 25	55,608 55	31,293 63	39,834 37	16,509 17	1,360,745 97
	576,203 21	7,935 64	18,352 25	6,406 44	3,166 15	612,003 69
	15,095 36	1,491 20	2,425 90	6 96	19,019 42	19,019 42
	32,795 74	4,204 35	1,814 07	150 56	39,289 94	39,289 94
	16,102 84	1,450 00	680 99	3,731 85	21,965 68	21,965 68
	54,111 13	4,800 65	2,669 54	3,580 18	65,398 90	65,398 90
	11,713 76		253 08	780 35	12,747 19	12,747 19
	91,457 45		16,905 49	2,433 59	125,124 25	125,124 25
	85,675 93		5,426 19	5,170 12	110,942 05	110,942 05
	2,100,655 67	95,132 39	61,489 83	78,116 07	35,468 93	2,370,862 89
	7,002 30	7,667 51	1,925 80	1,700 00	3,625 80	23,920 41

Total Revenue..... 1,951,223 89

Total Expenditure..... 2,370,862 89

Net deficit..... 419,639 00

STATEMENT SHOWING REVENUE AND EXPENDITURE BY POINTS AND BRANCHES
REVENUE

Points	Inspection		Weighing		Appeal Boards		Registration		License and Bonding		Statistical		Accounting		Research Laboratory		Grain Standards		Administration		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
Winnipeg.....	331,656	63	18,452	22	657	00	24,734	93	27,996	00					2	58			452	18	403,951	54
Churchill.....	17,120	17	8,965	99																	26,086	16
Keewatin.....	4,560	00	5,052	36																	9,612	36
Saskatoon.....	11,534	62	8,981	14																	20,515	76
Moose Jaw.....	10,193	42	6,155	45																	16,348	87
Medicine Hat.....	8,793	20	9,222	80																	18,016	00
Lethbridge.....	486	97	314	01																	800	98
Calgary.....	59,703	78	13,893	20	1,524	00															75	120 98
Edmonton.....	46,674	79	5,789	08	525	00															52,988	87
Vancouver.....	139,618	09	134,050	53			6,369	98													280,039	20
Fort William.....	506,994	54	477,530	96																	984,525	50
Toronto.....	4,885	45																			4,885	45
Montreal.....	11,924	67	81	05			7,755	78													19,761	50
Chatham.....	38,570	72																			38,570	72
Total.....	1,192,717	65	688,488	79	2,706	00	38,860	69	27,996	00					2	58			452	18	1,951,223	89

EXPENDITURE

Winnipeg.....	427,784 02	40,961 30	5,895 56	22,476 04	21,965 68	12,747 19	125,124 25	3,625 80	74,771 76	735,351 60
Churchill.....	9,241 01	5,898 91	.....	.....	.....	.....	.....	.....	.....	15,139 92
Keeewatin.....	4,560 00	5,052 36	.....	.....	.....	.....	.....	.....	.....	9,612 36
Saskatoon.....	23,912 52	16,241 10	.....	.....	.....	.....	.....	.....	11,688 40	51,842 02
Moose Jaw.....	21,632 89	11,320 00	.....	.....	.....	.....	.....	.....	.....	32,952 89
Medicine Hat.....	9,202 48	9,122 75	.....	.....	.....	.....	.....	.....	.....	18,325 23
Lethbridge.....	5,465 41	3,196 85	.....	.....	.....	.....	.....	.....	.....	8,662 26
Calgary.....	64,907 75	29,557 76	6,500 28	.....	.....	.....	.....	.....	13,807 74	114,773 53
Edmonton.....	72,311 26	13,942 81	6,623 58	.....	.....	.....	.....	.....	.....	92,877 65
Vancouver.....	116,159 46	107,145 73	.....	7,936 03	.....	.....	.....	.....	.....	231,241 22
Fort William.....	496,457 07	365,220 11	.....	.....	.....	65,398 90	.....	.....	10,674 15	937,750 23
Toronto.....	7,296 54	.....	.....	.....	.....	.....	.....	.....	.....	7,296 54
Montreal.....	62,660 02	4,344 01	.....	8,877 87	.....	.....	.....	.....	.....	75,881 90
Chatham.....	39,155 54	.....	.....	.....	.....	.....	.....	.....	.....	39,155 54
Total.....	1,360,745 97	612,003 69	19,019 42	39,239 94	21,965 68	65,398 90	125,124 25	3,625 80	110,942 05	2,370,862 89

Total Revenue..... 1,951,223 89

Total Expenditure..... 2,370,862 89

Net Deficit..... 419,639 00

APPENDIX No. 10

BOARD OF GRAIN COMMISSIONERS FOR CANADA

Regulations in force December 31, 1950

Regulation No.	Subject
1	Registration and Cancellation of Terminal Elevator Warehouse Receipts.
2	Registration and Cancellation of Eastern Warehouse Receipts and Transfer Receipts.
3	Construction of Elevators.
4	Cleaning Grain and Bins, Terminal Elevators.
5	Off Grades for Western Grain.
6	Off Grades for Eastern Grain.
7	Grades of Screenings.
8	Inspection of Samples Taken other than at an Inspection Point.
9	Appeals from Inspection Officers to Grain Appeal Tribunals.
10	Delivery of Grain to Ocean Vessels at Montreal, Quebec.
11	Delivery of Grain to Ocean Vessels at West Saint John, N.B.
12	Delivery of Grain to Ocean Vessels at East Saint John, N.B.
13	Delivery of Grain to Ocean Vessels at Halifax, N.S.
14	Enforcement of Lien by Sale of Grain.
15	Drying of Grain.
16	Fees.
17	Records, Reports and Returns.
18	Procedure, Country Elevators.
19	Receipt for Grain Delivered to Private Country Elevators and Mill Elevators.
20	Maximum Tariff of Charges, Eastern Elevators.
21	Maximum Tariff of Charges and Shrinkage Allowance, Country Elevators.
22	Maximum Tariff of Charges, Terminal Elevators.
23	Applications for Licences and Terms and Conditions under which Licences are Issued.
24	Receipt for Storage in Transit for Reshipment out of Canada of Grain Grown outside Canada.

WINNIPEG, Manitoba,
January 19, 1951.

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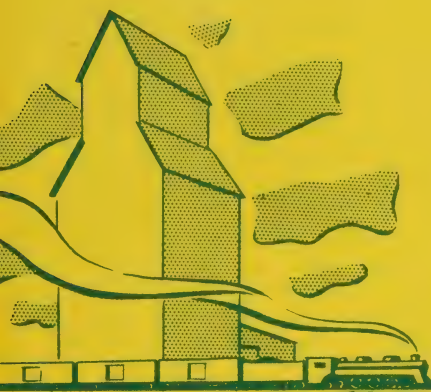
Canada Grain Commission
OF

The Board of Grain Commissioners FOR CANADA

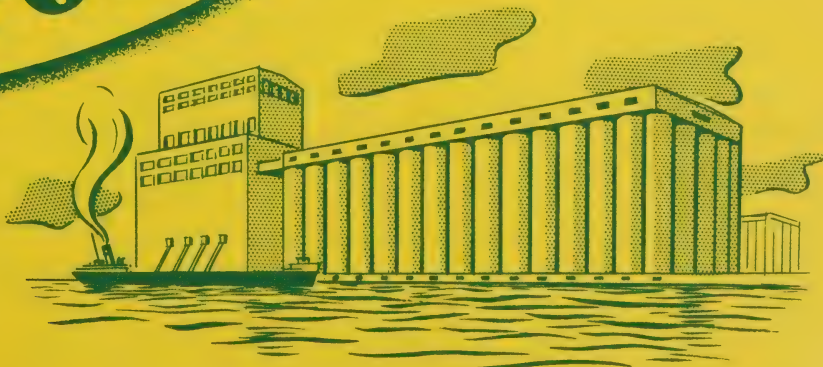
DEPARTMENT OF TRADE AND COMMERCE

Rt. Hon. C. D. Howe, M.P., Minister

Wm. Frederick Bull, Deputy Minister



Annual
REPORT for 1951





Board of
Grain Commissioners
for Canada

ANNUAL REPORT
for 1951

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DEPARTMENT OF TRADE AND COMMERCE
OTTAWA, CANADA

Minister: Rt. Hon. C. D. Howe, M.P.

Deputy Minister: Wm. Frederick Bull

EDMOND CLOUTIER, C.M.G., O.A., D.S.P.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1952

Price, 50 cents

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WINNIPEG, MANITOBA,
January 24, 1952.

The Right Honourable C. D. Howe, M.P.,
Minister of Trade and Commerce,
Ottawa, Canada.

SIR:
We beg to submit herewith the Annual Report of the Board of Grain Commissioners for Canada for the year 1951, in compliance with the provisions of Section 23 of The Canada Grain Act.

GENERAL CONDITIONS

In 1951 Canada produced a grain crop of near-record size despite generally unfavourable and intermittent harvesting weather throughout most of the prairies, which impaired both yield and quality of the cereal crop.

Much of the western grain crop was threshed in a tough and damp condition. Appreciable loss was also experienced through sprouting and, to a lesser degree, from mildew damage. Many fields in Saskatchewan and Alberta will remain unthreshed under snow until Spring.

The 1951 wheat acreage was 1.3 million acres below 1950 though slightly above the five-year norm.

Seeded acreage in 1951 for oats, barley and flaxseed exceeded the 1950 and the previous five-year average area under cultivation. As indicated in the table below, estimated grain production in 1951 for wheat, oats, barley, rye and flaxseed substantially surpasses out-turns for 1950 and the five-year average (1946-1950):

	1951		1950		Five-year Average 1946-1950	
	Acres*	Production**	Acres*	Production**	Acres*	Production**
Wheat.....	25.7	562.4	27.0	461.7	25.4	395.0
Oats.....	12.1	493.3	11.6	419.9	11.5	349.3
Barley.....	8.0	252.9	6.6	171.4	6.6	147.4
Rye.....	1.1	18.0	1.2	13.3	1.3	14.1
Flaxseed.....	1.1	9.2	.6	4.7	1.0	8.7

* Millions of Acres. ** Millions of Bushels.

Some further indication of the general characteristics of this year's marketed crop may be gained from car inspection data. About 23% of the total number of cars of Hard Spring Wheat inspected during August 1 to December 31, 1951 graded either No. 1, No. 2 or No. 3 Northern as against 38% in 1950 and 85% during the more normal year of 1949.

During 1951, from August 1 to December 31, over 45% of all cars inspected graded Tough and Damp, compared to 24% for the same period in 1950 and 3% in 1949. The percentage of tough and damp grain receipts increased steadily as the current season advanced. In the month of December, 1951, over 76% of all cars inspected graded Tough and Damp. Lakehead terminal stocks of tough and damp grain, by the close of the 1951 calendar year, were reported at about 30 million bushels.

The 1951 western cereal crop has presented one of the most serious handling and storage problems ever experienced by transportation and elevator companies. The estimated carry-over of wheat, oats, barley, rye and flaxseed in Canada at July 31, 1951 amounted to 334,441,285 bushels compared with 187,067,954 bushels in the previous year.

Shipments of the five principal grains by vessel from the Lakehead during the 1951 season of navigation, reported at 317.2 million bushels, showed a marked increase from the 1950 season volume (203.3 millions). Lakehead stocks at July 31, 1951 totalled 47.9 million bushels.

Pacific overseas clearances of grain for the crop year ended July 31, 1951 (68.5 million bushels) exceeded shipments of the previous crop season (62.6 millions).

During the first five months of the current crop year shipments from the Pacific Coast amounted to 35.1 million bushels in contrast with the much lighter clearances for the same period in 1950 (17.0 million bushels). Pacific Coast stocks at December 31, 1951, were 9,981,761 bushels for all grains.

Record port clearances of 7,278,443 bushels were established at Churchill for the 1951 shipping season. Shipments during 1950 totalled 6,767,743 bushels. By December 31, 1951, Churchill stocks amounted to 1,996,888 bushels compared with 460,556 bushels in store at that time in 1950.

OVERAGES—COUNTRY ELEVATORS

Country elevator annual returns covering 1949-50 operations showed limited gross shortages on wheat, rye and flaxseed, and effective August 1, 1950, the Board authorized additional shrinkage allowance for these grains as follows:

Straight Grade Grain

Wheat increased from $\frac{1}{2}\%$ to $\frac{3}{8}\%$.

Flax increased from 1% to $1\frac{1}{2}\%$.

Rye increased from $\frac{1}{4}\%$ to $\frac{1}{2}\%$.

Tough Grain

Rye increased from $\frac{3}{4}\%$ to 1% .

Damp Grain

Rye increased from 1% to $1\frac{1}{2}\%$.

Operating under this revised shrinkage tariff, the country elevators in 1950-51 showed a combined gross overage for all grains of 19,075,928 lbs. from total handlings of 32,746,612,426 lbs., or an overage of .06% in terms of handlings.

Moderate gross overages appeared in wheat (.03%), oats (.19%) and barley (.09%), but were higher for flaxseed (.59%). Rye and corn weighed out with gross shortages of .31% and 2.19% respectively.

Due to congested storage, some 1974 elevators were unable to complete their weighovers for the 1950-51 season, and hence the results of their operations were estimated. Further details of the breakdown in country elevator returns appear in table form below:

	1950-51	1949-50	1948-49
Elevators reporting shortages.....	897	1,797	2,259
Elevators reporting neither shortages nor overages.	2,030	120	52
Elevators reporting overages of less than .25%....	1,475	2,440	2,239
Elevators reporting overages from .25% to .50%...	587	456	466
Elevators reporting overages over .50%.....	78	123	116
Totals.....	5,067	4,936	5,132

INSPECTION OF GRAIN

The major problem in the grading of the 1951 Western crop was occasioned by the high outturn percentage of tough and damp grain, accompanied by sprouting and mildew resulting from unfavourable harvesting conditions.

In collaboration with the Grain Research Laboratory, special studies were undertaken to determine the effect of sprouting and mildew in the baking quality of flour.

An increase in the presence of ergot has been noted in all grains for the last two crop seasons. A recommendation for further research and publicity in ergot control was made to the Federal Department of Agriculture.

Extensive use of inspection services was made by producers and elevator companies during the Fall, in the submission of two-pound samples for grading.

The excessive moisture content of grain received at terminal elevators has required the maintenance of additional inspection crews to supervise drying operations. Milling tests were run by the Grain Research Laboratory to ensure against damage to the milling and baking quality of the grain in the drying process.

STORAGE OF FOREIGN GRAIN FOR RE-SHIPMENT FROM CANADA

Under authority of Section 15 (cc) of The Canada Grain Act, the Board during 1951 restricted the entry of foreign grain into Canada for export to give priority to the storage of Canadian grain. With the exception of permits issued for the Pacific Coast to one of the terminal elevators without country feeders, the flow of foreign grain into Canada was shut off early in the season before the Fall movement of the Canadian grain crop got under way.

During the 1951 calendar year, 20,567,313 bushels of foreign grain entered Canada for re-export under permits granted by the Board. By the close of the year, only 261,940 bushels of foreign grain remained in Canadian elevator storage—217,289 bushels on the Pacific Coast, and 44,651 bushels in Eastern position.

WEIGHING OF GRAIN

The Board were concerned over the considerable number of unsatisfactory lake vessel outturns at Eastern elevators which were investigated during the 1951 season of navigation.

In addition to the regular more routine checks on weighing of the cargoes at loading and unloading houses, special audits of terminal elevator stocks were carried out in connection with the reported appreciable outturn shortages in two lake vessel cargoes. Adjustment of liability for excessive outturn shortages for a number of cargoes are awaiting the completion of Eastern elevator weighovers.

On the whole, however, lake vessel cargo outturns have been fairly satisfactory.

Through the courtesy of a Scale Company in Montreal, arrangements have been made to give selected personnel of Weighing Branch, shop experience and training in the mechanics of large hopper scale operation, adjustment and repair.

ASSISTANT COMMISSIONERS

Complaints from producers investigated by Assistant Commissioners during the 1951 calendar year totalled 118, distributed by provinces of origin as follows: Alberta, 4; Saskatchewan, 85; Manitoba, 29.

In addition 2199 country elevators were inspected by the Assistant Commissioners—Alberta, 1,258; Saskatchewan, 402; Manitoba, 539 houses.

Assistant Commissioners of the Board also took up the matter of excessive overages with country elevator agents concerned. Storage facilities covered by Special Annex or "offsite" storage licence were inspected by these officials, and applications for out-of-turn cars investigated.

A very considerable number of complaints were investigated during 1951 respecting the operation of the car order book. These complaints originated for the most part in the Province of Saskatchewan where the car order book was in general use during the Fall season up to the date of its temporary suspension on December 4, 1951.

In addition to his regular duties, Assistant Commissioner Rayner since September 1, 1951, has acted as the Winnipeg representative of the Transport Controller.

CAR ORDER BOOK

With the commencement of Fall deliveries of the 1951 crop, the car order book was put into operation at many points in the Province of Saskatchewan. Car order book custodians were also appointed by the railway companies at a considerable number of places in Saskatchewan not supplied with railway agents. The car order book was used to a much lesser degree in Alberta and Manitoba during 1951.

Many complaints of inequity in car order book operations were investigated and the experience of the Board demonstrated that under this year's abnormal conditions the use of the car order book defeated the preference orders of the Canadian Wheat Board.

Accordingly, on December 4, 1951, after consultation with the Canadian Wheat Board and the Board of Grain Commissioners, the Transport Controller suspended operation of the car order book until July 31, 1952, to speed up loading at country points of preference orders and shipment of damp grain.

SUPPLEMENTARY STORAGE

In order to relieve the storage and transportation situation, Order-in-Council P.C. 5122 dated September 26, 1951, authorized the Board to permit the use by country elevator licensees of suitable supplementary "offsite" or special annex storage space for the warehousing of wheat under regulation by the Board.

The issuance of licences for storage of this type was restricted to warehouses meeting certain structural specifications, subject to inspection and approval by Board officials.

Owing to the difficulty of storage due to the excessive moisture condition of the 1951 crop, fewer applications for special storage licences were received by the Board than was originally anticipated. By December 31, 1951, only thirty-eight (38) applications for this type of licence had been filed with the Board, and thirty-one (31) supplementary storage licences issued for a total warehousing space of 678,700 bushels.

SHIPPING PERMIT NO. 100 AND GRAIN DRYING

By early January, 1951, Lakehead storage was quickly becoming congested. The railways were compelled to slow down the flow of box cars to the Lakehead to coincide with the volume of outward rail shipments from the Twin City ports. Meanwhile, large stocks of tough and damp grain, remained in country elevators and on Western farms. The damp grain particularly, required to be dried without delay to prevent further deterioration.

Accordingly, the Board on January 22, 1951, under special shipping authority designated as Permit No. 100, instructed the railways to supply cars for shipment to the Lakehead of damp grain from Manitoba and Saskatchewan, and damp coarse grains from Alberta.

By February 15, 1951, it was possible for the Board to extend this permit order to include shipment to terminals of tough grain with a moisture content of 16% or more, and from Alberta, tough coarse grains with a moisture content of 16% or greater. Permission was also granted for the shipment of tough flax under the Board's Special Permit No. 100.

In all matters relating to the movement of this tough and damp grain to the terminal elevators, the Board of Grain Commissioners acted in close collaboration with the Canadian Wheat Board.

On March 28, 1951, the Board of Grain Commissioners withdrew its special shipping instructions on assurance by the Canadian Wheat Board that shipping preferences would be established to give priority to outstanding car orders on Permit No. 100, and also to the movement of damp grain from country points.

Further substantial quantities of tough grain were dried by mixing with straight grade grain, and over 51 million bushels of tough and damp grain were put through terminal elevator driers during the 1950-51 crop year.

Transportation agencies and elevator companies co-operated to the fullest possible extent in the handling of the 1950 crop and losses reported through spoilage were negligible.

The 1951 Western crop presents an even more serious transportation and handling problem. Shipping authority under Permit No. 100 was invoked by the Board on November 22, 1951, to ensure priority for the movement of damp grain to the terminals.

Terminal elevator drying equipment is operating again this year on round-the-clock schedules. Everything is being done to meet the exigencies of the situation.

ELEVATOR CHARGES

At public meetings held by the Board in Toronto, Winnipeg and Vancouver in June and July, 1951, members of the grain trade made representations in the matter of maximum grain handling tariffs for the 1951-52 crop year.

After considering the evidence submitted, the Board authorized an upward adjustment in elevation, shovelling and cleaning charges to offset increased costs.

Maximum rates for storage and drying were, however, lowered by the Board for the new crop season.

On August 1, 1951, the under-noted revisions in elevator tariffs became effective:

EASTERN ELEVATORS

Georgian Bay and Lower Lake Ports:

Elevation:—(a) Grain for export—increased from $1\frac{1}{2}$ c. to $1\frac{1}{4}$ c. per bus.

(b) Receiving from cars—increased from $1\frac{1}{4}$ c. to $1\frac{1}{2}$ c. per bus.

(c) Receiving from wagons or trucks—increased from 2c. to $2\frac{1}{2}$ c. per bus.

(d) Delivering to trucks in bulk, in addition to the ordinary elevation charge— $\frac{1}{2}$ c. per bus.

(Not included in previous tariff regulations)

Storage:— (a) For each day or part thereof after the first ten days—reduced from 1/25c. to 1/30c. per bus.

Upper St. Lawrence Group:

Elevation:—(a) Receiving from vessels:

Single-deck vessels—increased from \$6.25 to \$7.00 per 1,000 bus.

(b) Double-deck vessels—increased from \$6.75 to \$8.25 per 1,000 bus.

(c) Discharging to vessels—increased from \$4.25 to \$5.00 per 1,000 bus.

Storage:— (a) For each day or part thereof after the first ten days—reduced from 1/25c. to 1/30c. per bus.

EASTERN ELEVATORS—*Concluded**Lower St. Lawrence Group:*

Elevation:—(a) Receiving from canal or lake vessels:

Single-deck vessels—increased from \$8.50 to \$9.00 per 1,000 bus.

Double-deck vessels—increased from \$9.25 to \$9.75 per 1,000 bus.

(b) Receiving from ocean vessels—increased from \$10.00 to \$10.50 per 1,000 bus.

(c) Receiving from railway cars, wagons or trucks—increased from \$8.50 to \$9.00 per 1,000 bus.

(d) Discharging to vessels, railway cars, wagons or trucks—increased from \$5.75 to \$6.00 per 1000 bus.

Storage:— (a) For each day or part thereof after the first ten days—reduced from 1/25c. to 1/30c. per bus.

Atlantic Ports

Elevation: Increased from 1.425c. to 1.55c. per bus.

Storage: For each day or part thereof after the first ten days—reduced from 1/25c. to 1/30c. per bus.

*General*Shovelling: Single-deck vessels—increased from \$4.00 to \$5.00 per 1,000 bus.
Double-deck vessels—increased from \$6.00 to \$7.00 per 1,000 bus.*Country Elevators*Elevation: Wheat, barley, rye and corn—increased from 2½c. to 2⅝c. per bus.
Oats—increased from 2c. to 2⅜c. per bus.
Flax—increased from 4½c. to 4¾c. per bus.
Sunflower Seed—increased from 6c. to 6½c. per cwt.

Storage: For each day or part thereof after the first fifteen days—all grain except Sunflower Seed—reduced from 1/25c. to 1/30c. per bus.

Allowance for Invisible Loss and Shrinkage:

Sunflower Seed added to shrinkage table at same rates applying to oats and barley.

TERMINAL ELEVATORS

Fort William, Port Arthur and Winnipeg

Elevation: (a) Wheat, oats, barley and corn—increased from 2c. to 2½c. per bus.

(b) Rye—increased from 2½c. to 2⅝c. per bus.

(c) Flax—increased from 3½c. to 3¾c. per bus.

(d) Screenings—increased from 4½c. to 4¾c. per cwt.

(e) Sunflower Seed—increased from 4c. to 4½c. per cwt.

Storage: For each day or part thereof after the first ten days—wheat, oats, barley, rye, flax and corn—reduced from 1/25c. to 1/30c. per bus.

West of Calgary, Alta.

Elevation: (a) Wheat, oats, barley and corn—increased from 2c. to 2½c. per bus.

(b) Rye—increased from 2½c. to 2⅝c. per bus.

(c) Flax—increased from 3½c. to 3¾c. per bus.

(d) Screenings—increased from 4½c. to 4¾c. per cwt.

(e) Sunflower Seed—increased from 4c. to 4½c. per cwt.

Storage: For each day or part thereof after the first ten days—Wheat, oats, barley, rye, flax and corn—reduced from 1/25c. to 1/30c. per bus.

Government Interior Terminal Elevators

Elevation:—(a) Wheat, oats, and barley—increased from 1c. to 1½c. per bus.

Receiving rye and corn

(b) Flax—increased from 2c. to 2½c. per bus.

(c) Screenings—increased from 3c. to 3½c. per cwt.

(d) Sunflower Seed—increased from 4c. to 4½c. per cwt.

Receiving from wagons or trucks—all grain—increased from 1½c. to 1¾c. per bus.

TERMINAL ELEVATORS—*Concluded**Churchill, Manitoba*

Elevation: (a) Wheat, oats and barley—increased from 2c. to 2½c. per bus.

(b) Rye—increased from 2½c. to 2¾c. per bus.

(c) Flax—increased from 3½c. to 3¾c. per bus.

(d) Screenings—increased from 4½c. to 4¾c. per cwt.

Storage: For each day or part thereof after the first eight days—

Wheat, oats, barley, rye and flax—

from August 1 to October 8 (inclusive)—reduced from 1/25c. to 1/30c. per bus.

from October 9 to July 31 of the following year inclusive—increased from 1/90c. to 1/50c. per bus.

*General*Cleaning: (a) Flax—containing from 5½% to 10% dockage—increased from 2c. to 2½c. per bus.
containing more than 10% dockage—increased from 2½c. to 3c. per bus.

Drying: (a) All Grain except Flax, Sunflower Seed and the malting grades of Barley—

Tough—reduced from 4½c. to 3¾c. per bus.

Damp—reduced from 7½c. to 6¼c. per bus.

(b) Flax and the malting grades of barley—

Tough—reduced from 5c. to 4c. per bus.

Damp—reduced from 9c. to 7c. per bus.

The record high moisture condition of the 1951 crop due to unfavourable harvesting posed problems of drying and storage for the elevator companies, more serious than ever before experienced.

It was imperative that the fullest use be made of drying facilities to save as much grain as possible from spoiling. On representation from the trade, the Board revised the drying tariff, effective November 12, 1951, partially restoring the cut in rates put into force on August 1, 1951. Subsequently, on December 22, 1951, the Board authorized higher terminal elevator drying rates for flaxseed and malting barley and other damp grain showing over 20% moisture content.

A review of drying tariff changes over the past thirty years is shown in table form below:

Effective Date	All Grain Except Sunflower Seeds		All Grain Except Flax Sunflower Seeds and Malting Barley		Flax and Malting Barley	
	Tough	Damp and Wet	Tough	Damp	Tough	Damp
	Per bu.		Per bu.		Per bu.	
	cts.	cts.	cts.	cts.	cts.	cts.
Sept. 5, 1919* to Nov. 2, 1950.....	3	5				
Nov. 3, 1950 to July 31, 1951.....			4½	7½	5	9
Aug. 1, 1951 to Nov. 11, 1951.....			3½	6½	4	7
Nov. 12, 1951 to Dec. 21, 1951.....			4	6½	4½	8
Dec. 22, 1951, to date.....			4	up to and including 20% moisture 6½c. Over 20% moisture 7½c.	5	9

* This is the earliest date for which official record is readily available.

REGULATIONS OF THE BOARD

On July 23, 1951, the Board amended, effective August 1, 1951, the Regulations made under authority of The Canada Grain Act by re-enacting the following regulations:—

No. 5—Off Grades for Western Grain.

No. 6—Off Grades for Eastern Grain.

No. 16—Fees.

No. 20—Maximum Tariff of Charges, Eastern Elevators.

No. 21—Maximum Tariff of Charges and Shrinkage Allowance—Country Elevators.

No. 22—Maximum Tariff of Charges—Terminal Elevators.

On September 25, 1951, the Board amended Regulation No. 16, Fees, effective October 1, 1951, to establish a uniform charge for the inspection of unofficial samples, submitted either by licensees or persons other than licensees.

On September 27, 1951, Regulation No. 16, Fees, was amended by the Board effective November 1, 1951, to bring the weighing fees charged in the Eastern Division more nearly into line with fees in effect in the Western Division.

Effective November 12 and December 22, 1951, the Board amended Regulation No. 22, Maximum Tariff of Charges, Terminal Elevators, to provide for increased charges for drying.

LAKE FREIGHT RATES

Application for revised maximum water carrying rates on grain from the Lakehead was made to the Board by the various shipping interests before the opening of the 1951 navigation season.

Following discussions with interested shipping concerns, the Board, on February 5, 1951, issued Order No. 19 rescinding maximum lake freight rates in effect and authorizing increased rates for the 1951 season as indicated below.

	Wheat and Rye	Barley	Oats
	c. per bu.	c. per bu.	c. per bu.
To Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	5½	5¼	5
To Port Colborne.....	7½	7¼	6½
To Toronto.....	8	7½	7¼
To Kingston.....	8¾	8¼	8
To Prescott.....	9	8½	8¼
To Montreal, Sorel, Three Rivers and Quebec City. Direct or transferred at Intermediate Ports.....	16	15¼	14

This order of the Board also authorized an increase of 2 cents per bushel over the above maximum rates for tonnage loaded during December, 1951, to provide for increased insurance costs.

AUDIT OF STOCKS—TERMINAL AND EASTERN ELEVATORS

In accordance with the provisions of Section 138 and 138 (a) of The Canada Grain Act, 29 terminal and 26 licensed Eastern elevators were weighed over during the 1950-51 crop year.

Large carry-over stocks at the Lakehead and country points, coupled with a shortage of lake vessel tonnage for grain transport, created a congested terminal storage situation early in the 1951-52 crop season. Under these conditions, weighovers became long costly operations for the Board and further tied up cars on track awaiting unload.

To remove a possible traffic slow-down threat, the Board were empowered by Order-in-Council P.C. 5122 of September 26, 1951, to defer the weighover of any terminal elevator until such time as the weighover was considered possible or practical having regard to transportation difficulties.

It was subsequently found necessary however, to defer the weighover of only one terminal elevator at the Lakehead.

The audits of two licensed Eastern elevators indicated an accumulation of grain overages as defined by Section 138 (a) of the Canada Grain Act. The value of overages disclosed amounting to \$3,285.05 was paid to the Board by the elevator licensees concerned.

CANADIAN GOVERNMENT ELEVATORS

Over four times the volume of grain was handled by the Canadian Government Interior Terminal Elevators in 1950-51 than during the previous crop year.

Grain receipts for all houses during the crop season 1950-51 totalled 13,195,456 bushels. Saskatoon and Moose Jaw elevators handled the bulk of this movement which was mostly low-grade grain.

Although the Prince Rupert house was licensed as a public terminal, no grain was taken in or shipped from the elevator during the 1950-51 crop season. A steady flow of grain has been received at Prince Rupert however, since October, 1951, and it is anticipated that some twelve vessel cargoes may clear from the Port in 1951-52.

The Port Arthur elevator continues to be operated by the McCabe Grain Company Limited under lease, which expires July 31, 1954.

The Canadian Government Elevators system had an operating surplus of \$134,968.92 for the fiscal year ended March 31, 1951, in contrast with a deficit of \$218,499.43 for the previous year.

Revenue from the Canadian Government Elevators for the 1950-51 fiscal period totalled \$700,693.31 and expenditures amounted to \$565,724.39.

The installation of a dust control system in the Calgary Elevator has been completed.

A modern passenger elevator equipment is being installed at the Port Arthur Elevator to replace obsolete equipment, and certain timber construction of the elevator offices is being replaced by fire resistant materials.

The conversion from coal to gas consumption of the drier and heating boilers of the Lethbridge Elevator is in progress.

Certain sections of the dock pile bracing at Prince Rupert have been renewed and the renewal of the entire dock pile bracing will be completed during the coming season.

All elevator buildings, equipment and railway trackage have been maintained in good operating condition.

COMMITTEES ON GRAIN STANDARDS

The Committees on Grain Standards for the crop year 1951-52 were constituted by the Board in accordance with the provisions of Section 25 of The Canada Grain Act.

The Western Committee was convened in Winnipeg on October 10 and November 7, 1951. The Eastern Committee met in Toronto on August 24 and November 20, 1951.

WHEAT BONUS

Wheat bonus certificates in the amount of Fifty Cents (50c.) were redeemed during 1951 and certificates outstanding as at December 31, 1951, amounted to \$7,745.83.

TRADE AND COMMERCE

PRAIRIE FARM ASSISTANCE ACT

The Board continued to collect the 1% levy on the purchase price of grain marketed in the three prairie provinces.

Collections under the Prairie Farm Assistance Act during the 1950-51 crop year totalled \$7,334,059.06. Since August 1, 1939, the date on which this assistance program was first introduced, to July 31, 1951, total monies collected by the Board amounted to \$55,389,412.47.

EXHIBIT AT BRANDON WINTER FAIR

The Board again arranged for an exhibit at the Manitoba Winter Fair held in Brandon in April, 1951. This exhibit which highlighted the work of the Grain Research Laboratory attracted wide interest.

PERSONNEL

Under Order-in-Council P.C. 6181 dated November 20, 1951, Mr. Donald Gordon McKenzie, was re-appointed Chief Commissioner of the Board, effective January 1, 1952.

Mr. Earl Edwin Baxter was appointed Chief Statistician of the Board on October 28, 1950.

Mr. Cyril Brownscombe was promoted from Head Clerk, Executive Office, to Registrar, on November 1, 1951.

Mr. Richard Gerald West was promoted to Grain Weighmaster, Winnipeg, on transfer from Fort William, effective November 1st, 1951.

Mr. John Joseph Manson was appointed Grain Weighmaster at Vancouver on March 23, 1951.

Mr. Ernest Harold Alexander was appointed Grain Inspector Grade 3, Toronto, effective February 1, 1951, and Mr. Arthur Methal Creighton was promoted to Grain Inspector Grade 3, Edmonton, on May 13, 1951.

The following officers of the Board retired during 1951:—

Mr. Frederick Joseph Rathbone, Assistant Commissioner, Fort William, (35 years' service).

Mr. Hugh Carruthers, Grain Weighmaster, Vancouver, (37 years' service).

Mr. David Arthur Benson, Grain Inspector Grade 3, Toronto, (37 years' service).

Mr. John Pike, Grain Inspector Grade 3, Edmonton, (26 years' service).

The Board record its regret at the death of Mr. Edward Llewellyn Jaffray, in May, 1951. Mr. Jaffray was Registrar since 1946, and had been forty years in the employ of the Board.

APPOINTMENT OF TRANSPORT CONTROLLER

On August 29, 1951, Commissioner R. W. Milner was appointed Transport Controller by Order-in-Council P.C. 4558 with wide powers of regulation over the physical movement of grain and other bulk commodities by rail and lake transport.

The services of Commissioner Milner were made available to the Department of Transport by the Board on a loan arrangement.

EXPENDITURE AND REVENUE

Total expenditure covering the operations of the Board for the fiscal year 1950-51, exclusive of the Canadian Government Elevators, amounted to \$2,474,015.56 compared with \$2,370,862.89 for the previous fiscal year. This represents an increase of expenditure for the 1950-51 fiscal period over the previous year of \$103,152.67, due mainly to heavier grain shipments, extensive drying operations and increased salary rates.

Revenue of the Board for 1950-51 totalled \$1,898,357.93 which was \$52,865.96 lower than the earnings of the previous year, recorded at \$1,951,223.89.

Expenditures for the first nine months of the current fiscal year totalled \$2,047,574.70 as against \$1,789,784.00 for a comparable period during the previous fiscal year.

Revenue for the same period of 1951-52 fiscal season amounted to \$2,438,560.91 substantially exceeding the revenue of the previous year for a comparable term, of \$1,564,777.22.

Reports of the various Branches of the Board are appended hereto.

Respectfully submitted.

D. G. MCKENZIE,
Chief Commissioner.

J. VALLANCE,
Commissioner.

APPENDIX No. 1

REPORT OF THE SECRETARY

WINNIPEG, MANITOBA,

January 23, 1952.

The Chief Commissioner,

Board of Grain Commissioners for Canada,

Winnipeg, Manitoba.

DEAR SIR:

I have the honour to submit the following memoranda summarizing the different matters handled in the Executive Offices of the Board during the year 1951:

- (a) Complaints
- (b) Prosecutions
- (c) Defaults
- (d) Cars out of turn
- (e) Receipt of wheat into country elevators from railway cars
- (f) Licences issued
- (g) Grain-loading platforms
- (h) Prairie Farm Assistance Act—One Per Cent Levy
- (i) Annual Weighover—Terminal and Eastern Elevators

Yours truly,

A. T. CALDER,

Secretary.

(a) COMPLAINTS

COUNTRY COMPLAINTS

During the year ended December 31, 1951, the Board investigated one hundred and twenty-one complaints, including three outstanding as at December 31, 1950, regarding the handling of grain at country elevators, shipments to terminal elevators, and the operations of licensees under The Canada Grain Act, as follows:

Manitoba.....	29
Saskatchewan.....	85
Alberta.....	4
Outstanding at December 31, 1950.....	3

121

These were disposed of as follows:

No grounds for complaint.....	34
Settlement effected.....	64
Outside jurisdiction of Board.....	4
Licensee fined.....	2
Licensee warned.....	1
Settlement ordered.....	1
Complaint withdrawn.....	3
Not yet disposed of.....	12

121

MISCELLANEOUS COMPLAINTS

Forty-two (42) complaints were received by the Board in respect to the handling of grain at terminal elevators and shipments to Eastern Canada, together with fourteen (14) complaints outstanding at December 31, 1950. These were disposed of as follows:

	Quality	Shortage
No evidence.....	—	47
No grounds for complaint.....	—	1
Settlement effected.....	—	4
Defendant fined.....	1	—
Not yet disposed of.....	—	3

 56

EXPORT SHIPMENTS

Seventeen (17) complaints in respect to overseas shipments were received during the year ending December 31, 1951. These, together with four (4) complaints outstanding at December 31, 1950, were disposed of as follows:

	Quality	Shortage
No evidence.....	—	14
No grounds for complaint.....	4	1
Settlement effected.....	—	1
Not yet disposed of.....	—	1

 21

(b) PROSECUTIONS

One penalty in the amount of \$1,000.00 was levied by the Board for a breach of Sections 43 and 55 of The Canada Grain Act.

Two penalties in a total of \$60.00 were levied by the Board for breaches of Regulation No. 18 of the Board by country elevator licensees.

(c) DEFAULTS

There were no defaults by licensees during the year 1951.

(d) CARS OUT OF TURN

During the year 1951 two hundred and sixty-four (264) out-of-turn cars were ordered by the Board under the provisions of Section 68 (2) of the Canada Grain Act as follows:

Grain out of condition.....	106
Elevators in danger of collapse.....	100
Elevators in danger of being flooded.....	53
Seed Grain required for export.....	5

 264
(e) RECEIPT OF WHEAT INTO COUNTRY ELEVATORS
FROM RAILWAY CARS

Under the provisions of Section 107 (a) of The Canada Grain Act, the Board authorized the receipt of wheat from railway cars into country elevators in a total of 894 cars.

(f) STATEMENT SHOWING THE NUMBER AND KIND OF LICENCES ISSUED, AT FIVE-YEAR INTERVALS, SINCE 1890, AS AT DECEMBER 1st EACH SEASON

Kind	1950- 1951	1945- 1946	1940- 1941	1935- 1936	1930- 1931	1925- 1926	1920- 1921	1915- 1916	1910- 1911	1905- 1906	1900- 1901	1895- 1896	1890- 1891
Public Country Elevators.....	5,111	5,470	5,614	5,528	5,500	4,236							
Private Country Elevators.....	9	7	6	12	385		†3,704	†3,013	†1,901	†1,100	†509	†377	†193
Mill Elevators.....	37	39	38	19	25	10							
Public Terminal Elevators.....	6	6	6	6	8	21	12	13					
Semi-Public Terminal Elevators.....	33	37	39	38	35				*39	*9	*5	*5	*3
Private Terminal Elevators.....	7	8	10	36	40	64	25	19					
Eastern Elevators.....	29	30	31	31	29	17	11	18					
Track Buyers.....	25	27	33	41	48	95	143	195	128				
Commission Merchants.....	31	36	39	51	57	94	117	111	75				
Grain Dealers.....	13	11	21	24	3	3	2						
Total Number Issued.....	5,301	5,671	5,837	5,786	6,130	4,540	4,014	3,369	2,143	1,109	514	382	196

* Known as "Terminal Elevators".

† Known as "Country Elevators".

(g) GRAIN-LOADING PLATFORMS

During the year 1951, no applications for the building of grain-loading platforms or the enlargement of existing ones were made to the Board.

SUMMARIZED STATEMENT OF GRAIN-LOADING PLATFORMS IN WESTERN CANADA

As at December 1, 1951

Province	Number of Platforms	Car Capacity
Manitoba.....	578	1,345
Saskatchewan.....	1,255	2,647
Alberta.....	722	1,428
British Columbia.....	34	76
Ontario.....	21	43
Total as at December 1, 1951.....	2,610	5,539

(h) THE PRAIRIE FARM ASSISTANCE ACT, 1939

ONE PERCENTUM LEVY

Amounts Collected on Grain Purchased During Period August 1, 1950, to July 31, 1951

PROVINCE	WHEAT		OATS		BARLEY		RYE		TOTAL LEVY
	Bushels	Levy	Bushels	Levy	Bushels	Levy	Bushels	Levy	
		\$ cts.		\$ cts.		\$ cts.		\$ cts.	\$ cts.
Manitoba.....	42,547,733	725,289 01	31,346,196	228,479 31	37,644,394	476,055 22	987,102	12,314 54	1,442,138 08
Saskatchewan....	213,645,953	3,186,388 10	46,472,773	352,985 04	22,876,001	291,059 93	4,502,071	60,011 61	3,890,444 68
Alberta.....	94,260,642	1,582,410 65	19,372,803	144,003 02	20,775,861	247,601 05	1,966,667	27,307 86	2,001,322 58
	350,454,328	5,494,087 76	97,191,772	725,467 37	81,296,256	1,014,716 20	7,455,840	99,634 01	7,333,905 34
Mixed Grain.....									\$ cts.
Adjustments not allocated to grains or provinces.....									153 72
Collections—August 1, 1950 to July 31, 1951.....									7,334,059 06
Collections—August 1, 1939 to July 31, 1950.....									48,055,353 41
Collections—August 1, 1950 to July 31, 1951.....									7,334,059 06
Total Collections, 1939 to July 31, 1951.....									55,389,412 47

(i) ANNUAL WEIGH-OVER, TERMINAL AND EASTERN ELEVATORS

BOARD OF GRAIN COMMISSIONERS FOR CANADA

ANNUAL WEIGH-UP OF GRAIN IN STORE IN PUBLIC TERMINAL ELEVATORS, CROP YEAR AUGUST 1, 1950, TO JULY 31, 1951

SUMMARY OF OVERAGES OR SHORTAGES

Date of Audit	Licensee	Wheat		Oats		Mixed Feed Oats		Barley		Rye		Flaxseed		Mixed Grain		Corn	
		Over-age bu.	Short-age bu.	Over-age bu.	Short-age bu.	Over-age bu.	Short-age bu.	Over-age bu.	Short-age bu.	Over-age bu.	Short-age bu.	Over-age bu.	Short-age bu.	Over-age lbs.	Short-age lbs.	Over-age bu.	Short-age bu.
Aug. 7-8, 1950. July 18-21/51.. July 10-17/51.. July 23, 1951..	Canadian Government Elevators—																
	Calgary, Alta.		110-30	30-06				1,461-32		82-18				3,020			102-24
	Calgary, Alta.	307-05		584-18		27-22		50-40			50-40			2,780			25-34
	Edmonton, Alta.		1,338-30	406-31				2-29							6,000		15-10
	Lethbridge, Alta.	403-50							13-36								
	Totals	710-55	1,449-00	1,021-21		27-22		1,515-05	13-36	82-18	50-40			5,800	6,000		143-12
	Net Total—Overage			1,021-21		27-22		1,501-17		31-34							
	or																
	Shortage		738-05												200		143-12

BOARD OF GRAIN COMMISSIONERS FOR CANADA

ANNUAL WEIGH-UP, CROP YEAR 1950-51

SUMMARY OF RESULTS OF CALCULATIONS OF EXCESS OR DEFICIENCY IN THE FIRST FOUR STATUTORY AND 1 C.W. GARNET AND 2 C.W. GARNET GRADES OF WHEAT, AS REVEALED BY THE ANNUAL WEIGH-UP DURING THE CROP YEAR, AUGUST 1, 1950, TO JULY 31, 1951, OF GRAIN IN STORE IN PUBLIC TERMINAL ELEVATORS IN THE WESTERN DIVISION AND ARRIVED AT IN THE MANNER PRESCRIBED IN SECTION 138, CANADA GRAIN ACT 1930, AND AMENDMENTS THERETO

Date of Audit	LICENSEE	EXCESS					DEFICIENCY				
		1	1	2	3	1 C.W.	2	3	1 C.W.	2 C.W.	
		Hard	Northern	Northern	Northern	Garnet	Northern	Northern	Garnet	Garnet	
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	
Aug. 7-8, 1950.	<i>Canadian Government Elevators—</i>										
	Calgary, Alta.....						170				8-10
July 18-21/51.	Calgary, Alta.....						107-40	348-10			5-20
July 10-17/51.	Edmonton, Alta.....						26-10	108-30			7-10
July 23, 1951..	Lethbridge, Alta.....			207-00				3-20			
							34-50	17-40			

(i) ANNUAL WEIGH-OVER, TERMINAL AND EASTERN ELEVATORS—Continued

BOARD OF GRAIN COMMISSIONERS FOR CANADA

STATISTICS BRANCH

ANNUAL WEIGH-UP, CROP YEAR 1950-51

SUMMARY OF RESULTS OF CALCULATIONS OF EXCESS OR DEFICIENCY IN THE FIRST FOUR STATUTORY AND 1 C.W. GARNET AND 2 C.W. GARNET GRADES OF WHEAT,
AS DISCLOSED BY THE ANNUAL WEIGH-UP DURING THE CROP YEAR AUGUST 1, 1950 TO JULY 31, 1951, OF GRAIN IN STORE IN SEMI-PUBLIC
TERMINAL ELEVATORS AT FORT WILLIAM AND PORT ARTHUR AND ARRIVED AT IN THE MANNER PRESCRIBED
IN SECTION 138, CANADA GRAIN ACT, 1930 AND AMENDMENTS THERETO

Date of Audit	LICENSEE	EXCESS					DEFICIENCY				
		1	2	3	1 C.W. Garnet	2 C.W. Garnet	1	2	3	1 C.W. Garnet	2 C.W. Garnet
		Hard bu.	Northern bu.	Northern bu.	bu.	bu.	Hard bu.	Northern bu.	Northern bu.	bu.	bu.
Aug. 3-8.....	<i>Canadian Consolidated Grain Co.</i>										
	<i>Thunder Bay</i>		2,711-40						4,447-00	35-40	8-50
May 3-10.....	<i>Eastern Terminal Elevator Co. Ltd.</i>										
	<i>Jas. Richardson & Sons</i>		3,146-20				1,341-50		2,327-10		211-00
Aug. 16-22.....	<i>Fort William Elevator Co. Ltd.</i>										
	<i>Elevator "F"</i>						180-40	5,235-40	20,329-30		40-30
Jan. 31-Feb. 2....	<i>Lakehead Terminals Ltd.</i>			97-20			112-50	241-30			
May 17-18.....	<i>Manitoba Pool Elevators</i>										
	<i>Terminal No. 2</i>						703-00	1,816-30	163-30		
Dec. 15-20.....	<i>McCabe Grain Co. Ltd.</i>										
	<i>Dominion Govt. Elevator</i>						785-50	4,920-40	2,720-00		11-30
Dec. 18-27.....	<i>Oatline Flour Mills Co. Ltd.</i>	5-40						2,141-40			7-30
Aug. 22-28.....	<i>N. M. Paterson & Sons Ltd.</i>	4,212-20		1,602-50				14,515-20	6,039-20		3-50
June 28-July 5....	<i>Superior Elevator Co. Ltd. (P. & H.)</i>						619-30	1,428-30	692-40		

BOARD OF GRAIN COMMISSIONERS FOR CANADA
ANNUAL WEIGH-UP, CROP YEAR 1950-51

SUMMARY OF RESULTS OF CALCULATIONS OF EXCESS OR DEFICIENCY IN THE FIRST FOUR STATUTORY AND 1 C.W. AND 2 C.W. GARNET GRADES OF WHEAT HANDLED AND IN STORE IN PRIVATE TERMINAL ELEVATORS IN THE WESTERN DIVISION, DURING CROP YEAR, AUGUST 1, 1950 TO JULY 31, 1951 AND ARRIVED AT IN THE MANNER PRESCRIBED IN SECTION 138, CANADA GRAIN ACT, 1930 AND AMENDMENTS THERETO.

Date of Audit, 19th July, 1951	Calgary, Alberta	
	Canada Malting Co. Ltd. No. 1	
	Excess	Deficiency
	bu.	bu.
1 Hard.....		
1 Northern.....		
2 Northern.....		
3 Northern.....		
1 C.W. Garnet.....		
2 C.W. Garnet.....		20-50

No wheat of the above grades was handled or in store in the following elevators:—

<i>Date of Audit</i>	<i>Elevator Company</i>	<i>Location</i>
July 13, 1951	Canada Malting Co. Ltd. No. 2.....	Calgary, Alta.
July 13, 1951	Canada Malting Co. Ltd. No. 3.....	Calgary, Alta.
Apr. 20, 1951	Canada Malting Co. Ltd.....	Winnipeg, Man.
July 12, 1951	Canada Malting Co. Ltd.....	Pt. Arthur, Ont.
May 1, 1951	Dominion Malting Co. Ltd.....	S. Transcona, Man.
July 27, 1951	United Grain Growers Term. Ltd.....	Edmonton, Alta.
June 14, 1951	National Grain Co. Ltd. (D. & S.).....	Ft. William, Ont.

GRAIN COMMISSION

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BOARD OF GRAIN COMMISSIONERS FOR CANADA

ANNUAL WEIGH-UP, CROP YEAR 1950-51

SUMMARY OF RESULTS OF CALCULATIONS OF OVERAGES AND SHORTAGES IN WESTERN CANADIAN AND FOREIGN GRAIN AS REVEALED BY THE ANNUAL WEIGH-UP DURING CROP YEAR AUGUST 1, 1950, TO JULY 31, 1951, OF GRAIN IN STORE IN EASTERN ELEVATORS, AND ARRIVED AT IN THE MANNER PRESCRIBED IN SECTION 138A CANADA GRAIN ACT, 1930, AND AMENDMENTS THERETO.

Date of Audit	Licensee	Kind of Grain	Overage	Shortage
1951			bu.	bu.
March 15- March 26	<i>Collingwood—</i> Collingwood Terminals Ltd.....	Western Canadian Wheat.....		1,183-50
		Western Canadian Oats.....		751-01
		Western Canadian Barley.....	150-28	
		Western Canadian Screenings.....		lbs. 5,330
		U.S.A. Wheat.....		666-30
		U.S.A. Corn.....		770-22
March 17- April 3	<i>Goderich—</i> Goderich El. & Transit Co. Ltd....	Western Canadian Wheat.....		5,450-10
		Western Canadian Oats.....		2,379-04
		Western Canadian Barley.....		385-38
		Western Canadian Rye.....		25-32
		Western Canadian Flaxseed.....		157-21
		Western Canadian Mixed Grain.....		(lbs.) 2,820
		Western Canadian Sample Grain.....		(lbs.) 23,260
		Western Canadian Screenings.....	(lbs.) 68,200	
		U.S.A. Flaxseed.....		73-18
		U.S.A. Corn.....		1,716-01
March 22	<i>Goderich—</i> Purity Flour Mills Ltd.....	Western Canadian Wheat.....		261-20
April 9- April 16	<i>Humberstone—</i> Robin Hood Flour Mills Ltd.....	Western Canadian Wheat.....		2,588-10
		Western Canadian Barley.....		59-08
		U.S.A. Wheat.....		121-30
Feb. 14- Feb. 16	<i>Kingston—</i> Canada Steamship Lines Ltd.....	Western Canadian Wheat.....		8,206-10
		Western Canadian Oats.....		488-09
		Western Canadian Barley.....		1,775-20
		Western Canadian Rye.....		24-55
		Western Canadian Flaxseed.....		1,115-34
		Western Canadian Sample Grain.....		(lbs.) 2,070
		U.S.A. Flaxseed.....		6-31
		U.S.A. Corn.....		151-54
March 2- March 13	<i>Midland—</i> Aberdeen Elevator Co. Ltd.....	Western Canadian Wheat.....		142-00
		U.S.A. Barley.....	49-08	
		U.S.A. Corn.....		583-23
March 6- March 21	<i>Midland—</i> Canadian National Railways.....	Western Canadian Wheat.....		1,885-20
		Western Canadian Oats.....		61-26
		U.S.A. Wheat.....		592-50
		U.S.A. Barley.....		30-00
		U.S.A. Corn.....		160-02
March 22- April 12	<i>Midland—</i> Canada Steamship Lines Ltd.....	Western Canadian Wheat.....		1,249-30
		Western Canadian Oats.....		128-27
		Western Canadian Barley.....	7-44	
		Western Canadian Rye.....		268-46
Feb. 23- Mar. 1	<i>Midland—</i> Midland Simcoe Elev. Co. Ltd....	Western Canadian Wheat.....		2,388-00
		Western Canadian Oats.....		3,483-23
		Western Canadian Barley.....		575-18
		Western Canadian Sample Grain.....	(lbs.) 3,290	
		U.S.A. Wheat.....		466-40
		U.S.A. Corn.....		969-31

ANNUAL WEIGH-UP, CROP YEAR 1950-51—(Continued)
CALCULATIONS OF OVERAGE OR SHORTAGE—EASTERN ELEVATORS

Date of Audit	Licensee	Kind of Grain	Overage	Shortage
1951			bu.	bu.
March 27- April 6	<i>Owen Sound—</i> Great Lakes Elev. Co. Ltd.....	Western Canadian Wheat.....		2,247-10
		Western Canadian Oats.....		1,802-02
		Western Canadian Barley.....		351-35
		Western Canadian Rye.....		41-21
		Western Canadian Mixed Grain.....	(lbs.) 880	
		Western Canadian Sample Grain.....	(lbs.) 5,200	
		Western Canadian Screenings.....	(lbs.) 6,320	
		U.S.A. Barley.....		1,861-12
		U.S.A. Corn.....		203-36
April 5	<i>Port Colborne—</i> National Harbours Board.....	Western Canadian Wheat.....		13,709-50
		Western Canadian Oats.....		83-24
		Western Canadian Barley.....		1,268-16
		Western Canadian Rye.....		33-40
		Western Canadian Flaxseed.....		183-18
		U.S.A. Wheat.....		2,244-30
		U.S.A. Barley.....		186-29
		U.S.A. Flaxseed.....		214-08
		U.S.A. Corn.....		3,518-16
March 8- March 16	<i>Port Colborne—</i> Maple Leaf Milling Co. Ltd.....	Western Canadian Wheat.....		8,669-00
		Western Canadian Oats.....		321-13
		Western Canadian Barley.....		81-22
		Western Canadian Rye.....		23-36
		Western Canadian Peas.....	745-50	
		Western Canadian Mixed Feed Oats Groats.....	110-1,210 tons	
		U.S.A. Corn.....		563-17
Feb. 28- March 5	<i>Port McNicoll—</i> Canadian Pacific Railway Co....	Western Canadian Wheat.....		2,885-40
		Western Canadian Oats.....		35-32
		Western Canadian Barley.....		53-08
		U.S.A. Wheat.....		798-40
		U.S.A. Corn.....		1,590-34
Feb. 16- Feb. 21	<i>Prescott—</i> National Harbours Board.....	Western Canadian Wheat.....		2,677-50
		Western Canadian Oats.....		154-18
		Western Canadian Barley.....		213-40
		Western Canadian Flaxseed.....		2-27
		Western Canadian Sample Grain.....	(lbs.) 2,300	
		Western Canadian Screenings.....	(lbs.) 40	
		U.S.A. Wheat.....		267-40
		U.S.A. Corn.....		2,778-04
		Argentine Oats.....		13-04
		Origin Unknown Screenings..	(lbs.) 80	
April 16- April 26	<i>Sarnia—</i> Sarnia Elevator Co. Ltd.....	Western Canadian Wheat.....		4,710-50
		Western Canadian Oats.....		1,065-21
		Western Canadian Barley.....		2,699-21
		Western Canadian Sample Grain.....	(lbs.) 18,020	
		U.S.A. Corn.....		244-15
April 9- April 13	<i>Toronto—</i> Toronto Elevators Ltd.....	Western Canadian Wheat.....		4,129-40
		Western Canadian Oats.....		2,427-09
		Western Canadian Barley.....		1,179-03
		Western Canadian Flaxseed.....		273-55
		Western Canadian Screenings.....	(lbs.) 26,250	
		U.S.A. Wheat.....		117-00
		U.S.A. Flaxseed.....		113-31
		U.S.A. Corn.....	222-10	
		U.S.A. Soya Beans.....		119-20
		U.S.A. Corn Grits.....		(lbs.) 530,720
		Argentine Oats.....		234-27
		Origin Unknown Screenings.....		(lbs.) 15,010

ANNUAL WEIGH-UP, CROP YEAR 1950-51—(Continued)
CALCULATIONS OF OVERAGE OR SHORTAGE—EASTERN ELEVATORS

Date of Audit	Licensee	Kind of Grain	Overage	Shortage
1951			bu.	bu.
Feb. 23- March 5	Walkerville— Hiram Walker & Sons Grain Corp. Ltd.	Western Canadian Wheat...	770-30	
		Western Canadian Oats...	318-07	
		Western Canadian Barley...		29-12
		Western Canadian Rye...	455-41	
		Western Canadian Sample Grain...		(lbs.) 920
		U.S.A. Corn...		2,316-16
		U.S.A. Screenings...		(lbs.) 50
		U.S.A. Dried Grain...		(lbs.) 1,930
		Origin Unknown Screenings...		(lbs.) 50
		Origin Unknown Dried Grains...		(lbs.) 1,160
Jan. 30- Feb. 14	Montreal— National Harbours Board	Western Canadian Wheat...		20,727-55
		Western Canadian Oats...		1,431-06
		Western Canadian Barley...		1,604-29
		Western Canadian Rye...		685-13
		Western Canadian Flaxseed...		540-09
		Western Canadian Buckwheat...		3-05
		Western Canadian Mixed Grain...		(lbs.) 220
		Western Canadian Sample Grain...		(lbs.) 3,430
		Western Canadian Screenings...		(lbs.) 1,710
		U.S.A. Wheat...		2,976-10
		U.S.A. Oats...	102-12	
		U.S.A. Barley...		107-28
		U.S.A. Flaxseed...		435-49
		U.S.A. Corn...		11,823-08
		U.S.A. Buckwheat...		17-04
		Argentine Oats...		128-26
April 16- April 20	Montreal— Dominion Elevator Ltd	Western Canadian Wheat...	209-40	
		Western Canadian Oats...	193-02	
		Western Canadian Barley...	126-33	
		Western Canadian Mixed Grain...		(lbs.) 370
		Western Canadian Sample Grain...		(lbs.) 100
		Western Canadian Screenings...		(lbs.) 10,860
		U.S.A. Corn...		75-21
		Argentine Oats...	72-08	
Jan. 23- Jan. 25	Quebec— National Harbours Board	Western Canadian Wheat...		3,295-50
		Western Canadian Oats...		727-08
		Western Canadian Barley...		876-18
		Western Canadian Sample Grain...		(lbs.) 1,740
		Western Canadian Screenings...		(lbs.) 1,010
		U.S.A. Corn...		66-05
		Argentine Oats...		46-26
Jan. 26- Jan. 29	Sorel— North American Elevs. Ltd	Western Canadian Wheat...		3,199-30
		Western Canadian Oats...		9-31
		Western Canadian Barley...		297-32
		Western Canadian Rye...		59-16
		Western Canadian Screenings...		(lbs.) 520
		U.S.A. Wheat...		96-20
		U.S.A. Barley...		179-28
		U.S.A. Corn...		1,229-14
Jan. 26- Jan. 27	Three Rivers— Three Rivers Gr. & Elev. Co. Ltd	Western Canadian Wheat...		4,513-30
		Western Canadian Oats...		12-16
		Western Canadian Barley...		10-25
		U.S.A. Wheat...		114-30
		U.S.A. Corn...		2,233-12
		Argentine Oats...		6-13

ANNUAL WEIGH-UP, CROP YEAR 1950-51—(Concluded)

CALCULATIONS OF OVERAGE OR SHORTAGE—EASTERN ELEVATORS

Date of Audit	Licensee	Kind of Grain	Overage	Shortage
1951			bu.	bu.
May 12	<i>Halifax</i> — National Harbours Board.....	Western Canadian Wheat..... Western Canadian Oats..... Western Canadian Barley..... U.S.A. Corn.....		3,179-10 11-17 1-02 307-15
May 10	<i>St. John</i> — Canadian National Railways.....	Western Canadian Wheat..... Western Canadian Oats..... Western Canadian Barley..... Western Canadian Rye.....		299-20 22-16 47-41 12-18
May 11	<i>West St. John</i> — Can. Pac. Rlys Elev. "B".....	Western Canadian Wheat..... Western Canadian Oats..... Western Canadian Barley..... Western Canadian Rye..... U.S.A. Barley.....		2,252-10 8-19 656-20 9-10 1-15
May 11	<i>West St. John</i> — Can. Pac. Rlys. Elev. "H".....	Western Canadian Wheat..... Western Canadian Oats..... Western Canadian Barley..... Western Canadian Rye..... Western Canadian Flaxseed..... Western Canadian Buckwheat..... U.S.A. Corn.....		2,497-00 37-33 331-31 114-18 218-51 6-38 343-25

APPENDIX No. 2

COMMITTEES ON GRAIN STANDARDS

COMMITTEE ON WESTERN GRAIN STANDARDS, 1951

- D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners
 J. Vallance, Commissioner, Board of Grain Commissioners
 R. W. Milner, Commissioner, Board of Grain Commissioners
 A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
 J. Forsyth, Chairman, Grain Appeal Tribunal, Winnipeg
 C. R. Manahan, Chairman, Grain Appeal Tribunal, Edmonton
 P. J. Marples, Chairman, Grain Appeal Tribunal, Calgary
 Dr. J. A. Anderson, Chief Chemist, Dominion Grain Research Laboratory
 Dr. C. H. Goulden, Dominion Cerealists
 W. A. Hastings, representing the millers of wheat flour
- | | | |
|-----------------|---|--|
| George Bennett | } | Representing grain growers in Alberta |
| W. H. Fairfield | | |
| R. H. MacDonald | | |
| B. S. Plumer | | |
| A. F. Sproule | } | Representing grain growers in Saskatchewan |
| A. P. Gleave | | |
| J. Wellbelove | | |
| L. L. Gray | | |
| G. S. Canfield | } | Representing grain growers in Manitoba |
| W. J. Parker | | |
| R. Barrett | | |
| Ray Mitchell | | |
- G. Constable, representing grain growers in British Columbia
 Nelson Young, representing Plant Products Division, Department of Agriculture

COMMITTEE ON EASTERN GRAIN STANDARDS, 1951

- D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners
 J. Vallance, Commissioner, Board of Grain Commissioners
 R. W. Milner, Commissioner, Board of Grain Commissioners
 A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
 N. Clare Wight, representing Montreal Board of Trade
 E. D. Sullivan, representing Toronto Board of Trade
 Guy D. Robinson, representing exporters of grain
- | | | |
|-----------------|---|---|
| F. H. Dunsford | } | Representing millers of wheat in the Eastern Division |
| H. Norman Davis | | |
| Hugh Bailey | } | Representing grain growers in Ontario |
| W. A. Amos | | |
| Wm. Wallace | } | Additional—representing growers of corn |
| E. B. Paterson | | |
| John W. Ham | | |

Meetings held: Western Committee, Winnipeg, October 10, 1951 and November 7, 1951

Eastern Committee, Toronto, August 24, 1951 and November 20, 1951.

APPENDIX No. 3

GRAIN APPEAL TRIBUNALS

<i>Winnipeg</i>	<i>Calgary</i>	<i>Edmonton</i>
J. Forsyth, Chairman	P. J. Marples, Chairman	C. R. Manahan, Chairman
Grant Hammond	T. F. Allison	J. F. Schofield
W. E. McLeod	J. Tranter	W. H. Boyle
A. F. Moore	W. N. Pringle	J. R. MacRae
James Gregory	W. McLeod	T. Stickney
S. C. Swanton	E. J. Munson	J. A. Kyle
J. F. Lazenby	G. C. Arbuthnott	H. A. Haggarty
D. K. Mills	A. Watson	C. E. Sage
H. R. Ballance	G. R. Deeton	Ross Saunders
J. A. Wittebolle (Acting Secretary)		D. K. McKay (Secretary)

<i>Toronto</i>	<i>Montreal</i>
John W. Ham	A. Chaplin
C. H. Coatsworth	T. B. Earle
R. O. Pratt	J. A. Byrne
N. H. Campbell	J. M. Vittie
C. W. Heimbecker	T. A. Climo
L. S. Johnston	E. Lorne Tracey (Secretary)
W. H. McCarthy	
W. A. Robertson	
E. D. Sullivan	
K. F. Wadsworth	
F. D. Tolchard (Secretary)	

SUMMARY OF APPEALS FOR THE CROP YEAR ENDED JULY 31, 1951

	Appeals Held	Number of Appeals Allowed		Number of Appeals Disallowed
		Raised	Lowered	
Winnipeg.....	650	54	Nil	596
Calgary.....	501	78	Nil	423
Edmonton.....	270	35	Nil	235
Toronto.....	Nil	Nil	Nil	Nil
Montreal.....	Nil	Nil	Nil	Nil
	1,421	167	Nil	1,254

APPENDIX No. 4

REPORT OF LICENSE AND BONDING BRANCH

The Secretary,
Board of Grain Commissioners,
Winnipeg, Manitoba

DEAR SIR:

I have the honour to submit the following report of the License and Bonding Branch for the year 1951.

During the crop year which commenced on August 1, 1950, and ended on July 31, 1951, one hundred and thirty-nine (139) firms and individuals applied for licences as required by the provisions of The Canada Grain Act.

Five thousand, six hundred and fifty-nine (5,659) applications for licences to operate were received and five thousand, five hundred and twenty-eight (5,528) licences were issued. One hundred and twenty-one (121) licences were transferred and ten (10) applications were withdrawn for various reasons.

APPLICATIONS RECEIVED AND LICENCES ISSUED

Kind	Applications		Licences	
	Received	Withdrawn	Issued	Transferred
Track Buyers.....	27	1	26	.....
Commission Merchants.....	33	.....	33	.....
Grain Dealers.....	16	2	14	.....
Public Terminal Elevators.....	6	.....	6	.....
Semi-Public Terminal Elevators.....	35	.....	35	.....
Private Terminal Elevators.....	8	.....	8	.....
Eastern Elevators.....	30	1	29	.....
Mill Elevators.....	38	1	37	.....
Private Country Elevators.....	11	.....	11	.....
Public Country Elevators.....	5,334	5	5,329	.....
Transfers.....	121	.....	.....	121
	5,659	10	5,528	121

The total licensed storage capacity as at July 31, 1951, was 515,603,970 bushels; elevators proper and permanent annexes comprising 444,516,320 bushels and temporary annexes 71,087,650 bushels; 5,429 elevators being licensed at that date.

Twenty-two (22) country elevator licences were cancelled by the Board during the crop year 1950-51 for the following reasons:—

Elevators demolished.....	8
Elevators destroyed by fire.....	5
Licences applied for in error.....	5
Elevators converted into permanent annexes.....	2
Receiving scale removed from elevator.....	1
Change in class of licence.....	1

Ten licences were suspended by the Board for varying periods during the crop year. Of these, nine were suspended because of repairs being necessary at licensed elevators but they were all reinstated in due course after the buildings had been repaired, and one as disciplinary action on account of the excessive overage record of the agent operating the elevator.

One hundred and twenty-one (121) licences were transferred from the original licensees to new managers during the crop year, necessitated by the leasing or selling of the elevators.

Licence fees collected during the crop year 1950-51 amounted to \$29,391.00; of this amount, \$70.00 was refunded to applicants who withdrew their applications for licences and \$20.00 on account of licences cancelled as from date of issue.

The collections of the one per centum levy made under the provisions of The Prairie Farm Assistance Act for the crop year 1950-51, as recorded at this office, were \$7,334,059.06. The total collections from August 1, 1939, to July 31, 1951, amounted to \$55,389,412.47.

Guarantee bonds in the amount of \$28,753,836.50, executed by seventeen (17) of the approved surety companies, were deposited with the Board as security under Section 79 of The Canada Grain Act to cover the operations of the licensees during the crop year 1950-51. In addition, six (6) licensees deposited negotiable Government bonds with a par value of \$25,500.00 in lieu of furnishing the usual forms of surety bonds.

During the first four months of the 1951-52 crop year, which commenced on August 1, 1951, 5,565 applications for licences of all classes were received and 5,546 licences were issued.

At December 1, 1951, there were 5,569 buildings classed as elevators under the provisions of The Canada Grain Act, 5,539 in the Western Division and 30 in the Eastern Division, 5,479 being licensed at that date. These buildings and their storage capacities, together with several summarizing statements and other relative information, are listed in the publication entitled "List of Grain Elevators in the Western and Eastern Divisions" which is published biennially.

Order-in-Council P.C. 5122, issued on September 26, 1951, authorized the use of supplementary storage space not eligible for licence under The Canada Grain Act. These buildings are known as Special Annexes; to date, 36 applications for authority to use this type of storage space have been received and 22 authorities have been granted.

The total licensed storage capacity as at December 1, 1951, was 526,862,770 bushels, permanent storage space amounting to 454,013,320 bushels, temporary 72,222,150 bushels and Special Annexes 627,300 bushels.

The one per centum levy collected during the first three months of the 1951-52 crop year amounted to \$2,132,628.32, the total collected since August 1, 1939, up to November 1, 1951, being \$57,522,040.79.

Respectfully submitted,

C. F. SPITTLE,

Licensing Officer.

APPENDIX No. 5

Report of Registrar

WINNIPEG, MANITOBA,
November 22, 1951

The Secretary,
Board of Grain Commissioners for Canada,
Winnipeg, Manitoba.

Dear Sir:

I have the honour to submit hereunder statement showing the total registrations and registrations for cancellation of terminal warehouse receipts, Western Division, and warehouse receipts or transfer receipts, Eastern Division, during the crop year ended July 31, 1951:

	Bushels Registered	Bushels Registered for Cancellation
<i>Winnipeg—</i>		
Wheat.....	183,422,049	165,611,936
Oats.....	74,264,845	67,375,031
Barley.....	54,516,121	45,156,519
Flax.....	2,464,791	4,589,930
Rye.....	8,547,874	9,918,669
Mixed Grain.....	678,884	576,504
Corn.....	14,904	25,404
Buckwheat.....	17,913	19,840
<i>Vancouver—</i>		
Wheat.....	59,101,837	68,150,240
Oats.....	1,263,325	2,029,218
Barley.....	5,631,649	5,044,455
Flax.....	464,346	540,631
Rye.....	8,116	11,685
Mixed Grain.....	46,175	26,341
Corn.....	102,419	3,375
<i>Calgary—</i>		
Wheat.....	661,610	344,032
Oats.....	19,905	20,828
Barley.....	1,516,541	1,640,104
Rye.....	40,841	49,512
Mixed Grain.....	1,525	2,720
Corn.....	14,009	13,983
<i>Edmonton—</i>		
Wheat.....	1,372,300	363,619
Oats.....	224,098	207,701
Barley.....	65,325	45,077
Flax.....	1,375	1,250
Mixed Grain.....	381	366
Corn.....	7,117	7,289
<i>Lethbridge—</i>		
Wheat.....	60,357	62,399
Barley.....	16,138	16,125
<i>Moose Jaw—</i>		
Wheat.....	4,430,045	240,927
Oats.....	4,428	3,830
Barley.....	3,338	3,338
Flax.....	1,721	1,721
Mixed Grain.....	2,246	652
Rapeseed.....	6,961	21,282

	Bushels Registered	Bushels Registered for Cancellation
<i>Saskatoon—</i>		
Wheat.....	4,650,306	138,073
Oats.....	4,443	4,019
Barley.....	1,413	
Flax.....	82,751	90,822
Mixed Grain.....	495	298
Rapeseed.....	3,185	
<i>Summary—Western Division—</i>		
Wheat.....	253,698,507	234,911,229
Oats.....	75,781,046	69,640,629
Barley.....	61,750,528	51,905,621
Flax.....	3,014,986	5,224,355
Rye.....	8,596,833	9,979,866
Mixed Grain.....	729,709	606,884
Corn.....	138,451	50,052
Buckwheat.....	17,913	19,840
Rapeseed.....	10,147	21,282
Total—All Grains.....	403,738,120	372,359,758

EASTERN WAREHOUSE RECEIPTS OR TRANSFER RECEIPTS

<i>Montreal—</i>		
Wheat.....	228,682,175	246,370,163
Oats.....	32,499,310	31,340,477
Barley.....	36,974,549	32,884,883
Flax.....	8,498,198	9,382,051
Rye.....	5,999,115	6,482,795
Mixed Grain.....	1,103,878	1,176,563
Corn.....	33,875,944	34,569,438
Screenings.....	441,818	387,121
Buckwheat.....	293,390	289,722
Beans.....	4,159,650	4,154,591
Oat Groats.....	6,506	7,572
Dried Grains.....	79,717	158,453
Peas.....	745	1,703
Corn Grits.....	23,959	12,120
Total—All Grains.....	352,638,954	367,217,652

Yours respectfully,

C. J. BROWNSCOMBE,

Registrar.

APPENDIX No. 6

1064 Grain Exchange,
WINNIPEG, MAN.

December 5, 1951.

Mr. A. T. Calder, Secretary,
Winnipeg, Man.

DEAR SIR:

I have the honour to submit herewith the annual report covering car and cargo inspections in the Western Division, also the car and cargo inspections, and sampling of grain in the Eastern Division for the crop year ending July 31st, 1951.

The condition of the Red Spring Wheat crop in the three Western Provinces of Manitoba, Saskatchewan, and Alberta at the beginning of August, 1950, indicated that a large crop of good quality wheat would be harvested, but the devastating frost that occurred on August 16th, before the grain was ready for harvesting, drastically lowered the grades on a large quantity of the crop into the commercial grades of No. 5, No. 6, and Feed Wheat.

Unfavourable weather conditions also resulted in considerable grain grading Tough and Damp. Owing to the frosted condition of the crop, a special effort was made by the Inspection Branch to grade two pound samples submitted by producers and elevator agents subject to grade and dockage, with the result twenty-seven thousand and twenty-three samples were graded. Of this number, 5,702 samples submitted by licensees were charged for and 21,321 samples sent in by non-licensees were graded free of charge.

In the Eastern Division, the quality of all cereals harvested was equal to the previous year, with the exception of small areas in Ontario that received unfavourable weather conditions, the Winter Wheat was degraded account of sprouts.

The total number of cars inspected in the Western Division for the year 1950-51 was 266,526 as against 246,264 for the previous year, an increase of 20,262 cars.

Yours truly,

A. F. DOLLERY,
Chief Grain Inspector.

WESTERN DIVISION

The Total Primary Inspections in the Western Division from August 1, 1950 to July 31, 1951 are made up as follows:—

	Cars	Percentages
Wheat.....	184,945	69.391
Oats.....	36,191	13.579
Barley.....	38,042	14.273
Flax.....	1,982	0.744
Rye.....	4,780	1.794
Mixed Grain.....	273	0.103
Corn.....	42	0.016
Buckwheat.....	16	0.006
Screenings.....	232	0.087
Peas.....	23	0.007
Total.....	266,526	100.000

The Grades of Wheat are as follows:—

	Cars	Percentage	Percentage of Total Wheat Inspections
1 Manitoba Northern.....	8,885	5.161	
2 Manitoba Northern.....	30,407	17.662	
3 Manitoba Northern.....	28,607	16.616	
4 Manitoba Northern.....	20,108	11.680	
No. 4 Special.....	5	0.003	
No. 5.....	23,794	13.822	
No. 6.....	18,664	10.841	
Feed.....	3,762	2.185	
Sample.....	88	0.051	
Smutty.....	277	0.161	
Tough.....	30,753	17.863	
Damp.....	6,243	3.626	
Rejected.....	568	0.329	
Total Red Spring Wheats.....	172,161	100.000	93.087
1 Canada Western Garnet.....	5	0.279	
2 Canada Western Garnet.....	350	19.509	
3 Canada Western Garnet.....	1,366	76.143	
Tough Canada Western Garnet.....	56	3.121	
Damp Canada Western Garnet.....	2	0.111	
Rejected Canada Western Garnet.....	15	0.837	
Total Garnet Wheats.....	1,794	100.000	0.970
1 Canada Western Amber Durum.....	24	0.255	
2 Canada Western Amber Durum.....	335	3.557	
3 Canada Western Amber Durum.....	2,670	28.350	
4 Canada Western Amber Durum.....	1,463	15.334	
5 Canada Western Amber Durum.....	362	3.844	
6 Canada Western Amber Durum.....	140	1.486	
Smutty Canada Western Amber Durum.....	16	0.170	
Tough Canada Western Amber Durum.....	2,275	24.156	
Damp Canada Western Amber Durum.....	2,049	21.756	
Rejected Canada Western Amber Durum.....	67	0.711	
Sample Canada Western Amber Durum.....	17	0.181	
Total Amber Durum Wheats.....	9,418	100.000	5.092
1 Canada Western Soft White Spring.....	25	8.361	
2 Canada Western Soft White Spring.....	216	72.241	
3 Canada Western Soft White Spring.....	29	9.699	
4 Canada Western Soft White Spring.....	4	1.338	
Tough Canada Western Soft White Spring.....	19	6.354	
Damp Canada Western Soft White Spring.....	6	2.007	
Total Soft White Spring Wheats.....	299	100.000	0.162
1 Canada Western Mixed Wheat.....	62	11.012	
2 Canada Western Mixed Wheat.....	116	20.604	
3 Canada Western Mixed Wheat.....	10	1.776	
4 Canada Western Mixed Wheat.....	130	23.091	
5 Canada Western Mixed Wheat.....	31	5.506	
6 Canada Western Mixed Wheat.....	51	9.059	
Tough Canada Western Mixed Wheat.....	137	24.334	
Damp Canada Western Mixed Wheat.....	14	2.487	
Smutty Canada Western Mixed Wheat.....	2	0.355	
Rejected Canada Western Mixed Wheat.....	10	1.776	
Total Mixed Wheats.....	563	100.000	0.306
1 Alberta Red Winter.....	288	40.563	
2 Alberta Winter.....	204	42.817	
3 Alberta Winter.....	42	5.916	
4 Alberta Winter.....	5	0.704	
Tough Alberta Winter.....	19	2.676	
Smutty Alberta Winter.....	34	4.789	
Rejected Alberta Winter.....	16	2.253	
Sample Alberta Winter.....	2	0.282	
Total Alberta Winter Wheats.....	710	100.000	0.383
Total All Wheats.....	184,945		100.000

The Grades of Oats are as follows:—

	Cars	Percentages
1 Canada Western.....	1	0.003
2 Canada Western.....	169	0.467
Extra 3 Canada Western.....	1,555	4.296
3 Canada Western.....	5,364	14.821
Extra 1 Feed.....	5,777	15.962
1 Feed.....	10,071	27.830
2 Feed.....	1,216	3.359
3 Feed.....	210	0.580
Mixed Feed Oats.....	16	0.044
Rejected Oats.....	123	0.339
Sample.....	160	0.442
Tough.....	10,151	28.049
Damp.....	1,378	3.808
Total Oats.....	36,191	100.000

The Grades of Barley are as follows:—

2 Canada Western Six Row.....	693	1.822
3 Canada Western Six Row.....	6,703	17.620
4 Canada Western Six Row.....	830	2.182
2 Canada Western Two Row.....	37	0.097
3 Canada Western Two Row.....	320	0.840
2 Canada Western Yellow.....	1	0.003
3 Canada Western Yellow.....	19	0.049
1 Feed.....	7,084	18.622
2 Feed.....	4,948	13.007
3 Feed.....	2,639	6.936
Rejected.....	86	0.226
Sample.....	45	0.121
Tough.....	10,276	27.012
Damp.....	4,361	11.463
Total Barley.....	38,042	100.000

The Grades of Flax are as follows:—

1 Canada Western.....	571	28.810
2 Canada Western.....	112	5.651
3 Canada Western.....	109	5.449
4 Canada Western.....	21	1.059
Sample.....	10	0.505
Tough.....	883	44.551
Damp.....	276	13.925
Total Flax.....	1,982	100.000

The Grades of Rye are as follows:—

1 Canada Western.....	3	0.063
2 Canada Western.....	1,778	37.197
3 Canada Western.....	1,424	29.791
4 Canada Western.....	303	6.339
Ergoty Rye.....	366	7.656
Rejected.....	22	0.460
Tough.....	704	16.611
Damp.....	85	1.778
Sample.....	5	0.105
Total Rye.....	4,780	100.000

The Grades of Mixed Grain are as follows:—

	Cars	Percentages
No. 1 Mixed Grain.....	38	13.919
No. 2 Mixed Grain.....	41	15.018
No. 3 Mixed Grain.....	68	24.908
No. 4 Mixed Grain.....	18	6.593
Tough.....	49	17.949
Damp.....	37	13.553
Smutty.....	1	0.366
Sample.....	14	5.129
Rejected.....	7	2.565
Total Mixed Grain.....	273	100.000

The Grades of Corn are as follows:—

No. 1 Canada Western Yellow.....	1	2.381
No. 2 Canada Western Yellow.....	4	9.524
No. 3 Canada Western Yellow.....	5	11.905
No. 4 Canada Western Yellow.....	2	4.762
No. 5 Canada Western Yellow.....	6	14.285
Tough.....	1	2.381
Sample.....	23	54.762
Total Corn.....	42	100.000
Buckwheat.....	16	
Screenings.....	232	
Peas.....	23	
Total.....	266,526	

THE NUMBER OF CARS OF GRAIN INSPECTED AT THE VARIOUS POINTS DURING
THE CROP YEAR AUGUST 1, 1950 TO JULY 31, 1951

Point	Cars	Percentages
Winnipeg.....	194,526	72.986
Calgary.....	27,640	10.371
Moose Jaw.....	6,706	2.516
Saskatoon.....	8,665	3.251
Medicine Hat.....	3,410	1.280
Lethbridge.....	34	0.013
Vancouver.....	2,968	1.113
Edmonton.....	18,573	6.968
Churchill.....	4,004	1.502
Total.....	266,526	100.000

NUMBER OF TWO POUND SAMPLES SUBJECT TO GRADE AND DOCKAGE GRADED
BY INSPECTION BRANCH CROP YEAR 1950-51

Point	For Licensees	For Non Licensees	Total
Winnipeg.....	3,544	20,603	24,147
Calgary.....	866	210	1,076
Edmonton.....	479	256	735
Lethbridge.....	582	108	690
Medicine Hat.....	27	38	65
Saskatoon.....	54	41	95
Moose Jaw.....	150	65	215
Total.....	5,702	21,321	27,023

SUMMARY OF CARS RE-INSPECTED 1950-51

	Winnipeg			Calgary		
Cars inspected.....	194,526			27,640		
Cars re-inspected.....	37,650 19.36%			4,009 14.51%		
Re-inspections	Cars	Percentage of		Cars	Percentage of	
		Rein- spections	Total Cars Inspected		Rein- spections	Total Cars Inspected
Left as Graded.....	21,969	58.35	11.29	1,493	37.24	5.40
Grades Raised.....	7,575	20.12	3.90	1,406	35.07	5.09
Grades Lowered.....	772	2.05	0.40	56	1.40	0.20
Dockage Raised.....	998	2.65	0.51	269	6.71	0.98
Dockage Lowered.....	6,336	16.83	3.26	785	19.58	2.84
Total.....	37,650	100.00	19.36	4,009	100.00	14.51
	Edmonton			Saskatoon		
Cars inspected.....	18,573			8,665		
Cars re-inspected.....	5,449 29.34%			511 5.89%		
Re-inspections	Cars	Percentage of		Cars	Percentage of	
		Rein- spections	Total Cars Inspected		Rein- spections	Total Cars Inspected
Left as Graded.....	2,297	42.15	12.36	489	95.69	5.64
Grades Raised.....	1,163	21.34	6.26	21	4.11	0.24
Grades Lowered.....	58	1.07	0.32			
Dockage Raised.....	228	4.18	1.23			
Dockage Lowered.....	1,703	31.26	9.17	1	0.20	.01
Total.....	5,449	100.00	29.34	511	100.00	5.89
	Moose Jaw			Medicine Hat		
Cars inspected.....	6,706			3,410		
Cars re-inspected.....	371 5.53%			10 0.29%		
Re-inspections	Cars	Percentage of		Cars	Percentage of	
		Rein- spections	Total Cars Inspected		Rein- spections	Total Cars Inspected
Left as Graded.....	337	90.84	5.02	6	60.00	0.17
Grades Raised.....	32	8.62	0.48	1	10.00	0.03
Grades Lowered.....						
Dockage Raised.....						
Dockage Lowered.....	2	0.54	0.03	3	30.00	0.09
Total.....	371	100.00	5.53	10	100.00	0.29
	Lethbridge			Vancouver		
Cars inspected.....	34			2,968		
Cars re-inspected.....	Nil			68 2.29%		
Re-Inspections	Cars	Percentage of		Cars	Percentage of	
		Rein- spections	Total Cars Inspected		Rein- spections	Total Cars Inspected
Left as Graded.....				53	77.94	1.79
Grades Raised.....				12	17.65	0.40
Grades Lowered.....				3	4.41	0.10
Dockage Raised.....						
Dockage Lowered.....						
Total.....				68	100.00	2.29
				Churchill		
Cars inspected.....				4,004		
Cars re-inspected.....				Nil		

TRADE AND COMMERCE

RECAPITULATION OF RE-INSPECTIONS

Total cars inspected.....		226,526	
Total Cars re-inspected.....		48,068	18.04%
	Cars	Percentage of	
		Rein- spections	Total Inspections
Left as Graded.....	26,644	55.43	10.00
Grades Raised.....	10,210	21.24	3.83
Grades Lowered.....	889	1.85	0.33
Dockage Raised.....	1,495	3.11	0.56
Dockage Lowered.....	8,830	18.37	3.31

SUMMARY OF CARS APPEALED

	Winnipeg		Edmonton		Calgary		Total	
	Cars	Percent	Cars	Percent	Cars	Percent	Cars	Percent
Left as Graded.....	596	91.69	235	87.04	423	84.43	1,254	88.25
Grades Raised.....	54	8.31	35	12.96	78	15.57	167	11.75
Grades Lowered.....								
Dockage Raised.....								
Dockage Lowered.....								
Total.....	650	100.00	270	100.00	501	100.00	1,421	100.00

PERCENTAGE OF APPEALS TO TOTAL INSPECTIONS

	Cars	Percent
Total Inspections.....	266,526	.....
Total Appeals.....	1,421	0.53
Total Grades Changed.....	167	0.06

GRAIN INSPECTED AND SHIPPED BY VESSEL AUGUST 1, 1950 TO JULY 31, 1951

	Fort William and Port Arthur	Vancouver	Churchill
	bushels	bushels	bushels
Wheat.....	142,493,638	64,789,215	6,767,743
Oats.....	45,195,407	545,211	.....
Barley.....	34,819,611	2,682,977	.....
Flaxseed.....	3,649,581	463,926	.....
Rye.....	9,644,157	.....	.....
Screenings.....	1,762,885	3,333	.....
Mixed Grain.....	166,144	.....	.....
Barley U.S.A.....	.....	2,173,963	.....

OUTWARD CARS INSPECTED CROP YEAR AUGUST 1, 1950 TO JULY 31, 1951, EX PUBLIC, SEMI-PUBLIC
AND PRIVATE ELEVATORS

GRAIN COMMISSION

—	Winnipeg	Calgary	Edmonton	Moose Jaw	Saskatoon	Lethbridge	Vancouver	Fort William and Port Arthur	Churchill	Medicine Hat
Wheat.....	297	132	227	626	419	32	1,430	9,462	1	.....
Oats.....	1,087	48	149	76	48	.....	628	10,372	9	.....
Barley.....	822	136	61	14	6	9	142	7,575	.....	.....
Flax.....	38	.....	.....	1	67	.....	.....	594	.....	.....
Rye.....	17	.....	.....	2	14	.....	10	208	.....	.....
Mixed Grain.....	72	216	.....	69	4	.....	15	211	2	.....
Corn.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Screenings.....	487	352	7	212	486	.....	1,072	2,953	105	13
Peas.....	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Buckwheat.....	.....	.....	.....	.....	.....	.....	.....	11	.....	.....
Mixed Feed Oats.....	.....	.....	.....	.....	.....	.....	.....	14	.....	.....
Corn (U.S.A.).....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....
Total.....	2,832	884	444	1,000	1,044	41	3,297	31,403	117	13

EASTERN DIVISION

SUMMARIZED STATEMENT, AUGUST 1, 1950 TO JULY 31, 1951

TOTAL INSPECTIONS

<i>Carloads—</i>			
Grain grown in the Eastern Division:			
	Cars		
At Montreal.....	394		
At Toronto.....	1,944		
At Chatham.....	7,956		
			10,294 cars
<i>Cargoes—</i>			
Grain grown in the Eastern Division:			
	Bushels		
At Montreal.....	1,870,780		
At Toronto.....	142,776		
At Chatham.....	843,796		
			2,857,352 bus.
<i>Cargoes—</i>			
Grain grown in the Western Division:			
	Bushels		
At Montreal.....	49,108		
			49,108 bus.
<i>Cargoes—</i>			
Grain grown in the United States:			
	Bushels		
At Montreal.....	409,980		
			409,980 bus.
			3,316,440 bus.
<i>Bin Inspection—</i>			
Grain grown in the Eastern Division:			
	Bushels		
At Montreal.....	1,190,461		
At Chatham.....	3,000		
			1,193,461 bus.
<i>Bin Inspection—</i>			
Grain grown in the Western Division:			
	Bushels		
At Montreal.....	3,882		
			3,882 bus.
			1,197,343 bus.

GRAIN SAMPLED BUT NOT INSPECTED (FEES) AUGUST 1, 1950 TO JULY 31, 1951

Carloads	Montreal	Toronto	Chatham
Western Grain.....	204	1	
Eastern Grain.....	27	6	523
American Grain.....	1		9
Argentine Grain.....	41		
Total.....	273	7	532

<i>Cargoes—</i>			
Grain grown in Eastern Division:			
	Bushels	Bushels	
At Montreal.....	161,425		
At Chatham.....	1,238,647		
			1,400,072
<i>Cargoes—</i>			
Grain grown in Western Division:			
At Montreal.....	750,967		
At Chatham.....	242,258		
			993,225
<i>Cargoes—</i>			
Grain grown in United States:			
At Montreal.....	4,677,790		
			4,677,790

GRAIN COMMISSION

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SUMMARIZED STATEMENT, AUGUST 1, 1950 TO JULY 31, 1951

GRAIN SAMPLED BUT NOT INSPECTED (FEES) AUGUST 1, 1950 TO JULY 31, 1951

<i>Cargoes—</i>		
Grain grown in Argentina:		
At Montreal.....	1,104,320	1,104,320
		<u>8,175,407</u>
<i>Bin Sampling—</i>		
Grain grown in Eastern Division:		
At Montreal.....	207,085	207,085
<i>Bin Sampling:</i>		
Grain grown in Western Division:		
At Montreal.....	4,707	
At Chatham.....	87,065	91,772
<i>Bin Sampling—</i>		
Grain grown in United States:		
At Chatham.....	303,333	303,333
		<u>602,190</u>

GRAIN SAMPLED BUT NOT INSPECTED (NO FEES) AUGUST 1, 1950 TO JULY 31, 1951

<i>Cargoes—</i>			Bushels	Bushels
Western Grain (Export).....	105,659,636			
Western Grain (Export in bags).....	1,258,452			
Western Grain (Inward).....	33,490,075			
				<u>140,408,163</u>
<i>Cargoes—</i>				
Eastern Grain (Export).....	1,725,770			
Eastern Grain (Export in bags).....	19,351			
Eastern Grain (Inwards).....	741,014			
				<u>2,486,135</u>
<i>Cargoes—</i>				
American Grain (Export).....	9,607,665			
American Grain (Bagging).....	3,928			
American Grain (Inwards).....	11,749,834			
				<u>21,361,427</u>
<i>Cargoes—</i>				
Argentina Grain (Export).....	696,700			
Argentina Grain (Inwards).....	269,105			
				<u>965,805</u>
Total.....				<u>165,221,530</u>

SUMMARIZED STATEMENT, AUGUST 1, 1950 TO JULY 31, 1951

RECAPITULATION BY POINTS

<i>At Montreal—</i>			Bushels	Bushels
Export.....	69,234,940			
Export (in bags).....	769,018			
Inwards.....	46,250,023			
				<u>116,253,986</u>
<i>At Sorel—</i>				
Export.....	10,636,293			
				<u>10,636,293</u>
<i>At Three Rivers—</i>				
Export.....	10,641,869			
				<u>10,641,869</u>
<i>At Quebec—</i>				
Export.....	11,715,227			
Export (in bags).....	40,751			
				<u>11,755,978</u>
<i>At Halifax—</i>				
Export.....	5,572,827			
				<u>5,572,827</u>
<i>At West St. John—</i>				
Export.....	9,888,615			
Export (in bags).....	471,962			
				<u>10,360,577</u>
Total Bushels.....				<u>165,221,530</u>

GRADES OF CARLOADS INSPECTED

	Montreal	Toronto	Chatham	Total
<i>Wheat—</i>				
1 C.E. Red Winter.....			1	1
2 C.E. Red Winter.....			6	6
1 C.E. White Winter.....	8	4	98	110
2 C.E. White Winter.....	92	263	310	665
3 C.E. White Winter.....	19	127	26	172
4 C.E. White Winter.....	1	32	3	36
5 C.E. White Winter.....	1	8	3	12
1 C.E. Mixed Winter.....	10	4	493	507
2 C.E. Mixed Winter.....	50	248	604	902
3 C.E. Mixed Winter.....	7	9	26	42
4 C.E. Mixed Winter.....		1	2	3
6 C.E. Winter.....		6	1	7
Tough.....	39	322	1,409	1,770
Damp.....			8	8
Smutty.....	2	57	49	108
Sample.....	3	24	4	31
<i>Oats—</i>				
1 C.E. White.....		4	1	5
3 C.E.....	1	1		2
4 C.E.....		1		1
Mixed Feed.....	2	29		31
Mixed Feed and Cinders.....		1		1
Tough.....	2	6		8
<i>Barley—</i>				
2 C.E. 6 Row.....			1	1
3 C.E. 6 Row.....		3	4	7
1 Feed.....	1			1
2 Feed.....	69			69
3 Feed.....	33	123		156
Barley and Broken Barley.....	6			6
Sample.....	1			1
Tough.....		2	3	5
<i>Rye—</i>				
1 C.E.....			5	5
2 C.E.....		15	10	25
3 C.E.....		2	2	4
4 C.E.....			1	1
Tough.....		8	61	69
Damp.....		1	5	6
<i>Mixed Grain—</i>				
Sample.....	1			1
<i>Buckwheat—</i>				
2 C.E.....		8	1	9
3 C.E.....	1			1
Tough.....	4	1	8	13
Damp.....	13	8	10	31
<i>Corn—</i>				
Extra Dry 1 C.E. Yellow.....		1	85	86
1 C.E. Yellow.....			300	300
Extra Dry 2 C.E. Yellow.....		1	180	181
2 C.E. Yellow.....		29	544	573
Extra Dry 3 C.E. Yellow.....		1	164	165
3 C.E. Yellow.....		4	360	364
Extra Dry 4 C.E. Yellow.....			37	37
4 C.E. Yellow.....	1		101	102
Extra Dry 5 C.E. Yellow.....			7	7
5 C.E. Yellow.....			30	30
Extra Dry 1 C.E. White.....			5	5
1 C.E. White.....			2	2
Extra Dry 2 C.E. White.....			3	3
2 C.E. White.....			2	2
1 C.E. Mixed.....			4	4
Extra Dry 2 C.E. Mixed.....			2	2
2 C.E. Mixed.....			3	3
3 C.E. Mixed.....			1	1
Tough.....			287	287
Damp.....		1	166	167
Moist.....		1	515	516
Wet.....		6	503	509
Sample.....	1		3	4

GRADES OF CARLOADS INSPECTED—*Concluded*

	Montreal	Toronto	Chatham	Total
<i>Beans—</i>				
1 C.E. Pea Beans.....			17	17
2 C.E. Pea Beans.....			44	44
3 C.E. Pea Beans.....			14	14
4 C.E. Pea Beans.....			21	21
3 C.E. Yelloweyes.....			2	2
4 C.E. Light Red Kidney Beans.....			1	1
Tough.....			168	168
Damp.....			10	10
Sample.....			4	4
<i>Soybeans—</i>				
1 Can. Yellow.....		275	454	729
2 Can. Yellow.....		28	12	40
3 Can. Yellow.....		3	1	4
Tough.....	3	183	561	747
Damp.....	4	23	128	155
Moist.....		8	40	48
Wet.....		3	20	23
<i>Flaxseed—</i>				
1 C.E.....		7		7
2 C.E.....		20		20
3 C.E.....		8		8
4 C.E.....		2		2
Tough.....	14	18		32
Damp.....	5	2		7
<i>Screenings—</i>				
Refuse.....		1		1
Uncleaned.....		1		1
Totals.....	394	1,944	7,956	10,294

APPENDIX No. 7

FORT WILLIAM, Ontario

January 2, 1952

Mr. A. T. Calder,
Secretary,
Board of Grain Commissioners,
Winnipeg, Manitoba.

DEAR SIR:—

I have the honour to submit herewith the following report of the Grain Weighing Branch of the Board for the crop year 1950-51.

In the Western Division this Branch of the Board supplied weighing services at all Public Terminal, Semi-Public Terminal and Private Terminal Elevators licensed by the Board for the purpose of weighing all grain received into and shipped out of these elevators, as required under Sections 91 and 123 of the Act. Plants operating under Mill Elevator licenses were also supplied with weighing services when required to comply with the Act. For the benefit of the Trade in the Eastern Division, weighing services were available at elevators licensed as Eastern Elevators on a fees basis at the following ports; Port McNicoll, Midland, Owen Sound, Goderich, Toronto and Sarnia.

The Fall of 1950 was reported to have been one of the wettest on record and very large quantities of tough and damp grain was dried in Terminal Elevators and the equipment for weighing, receiving, shipping and transferring grain was more-or-less in continuous use day and night. However, officers of this Branch made regular inspections and this equipment was maintained in good condition throughout the year. The inspection of scales in the elevators in the Western Division at Fort William and Port Arthur; the Canadian Government Interior Elevators at Moose Jaw, Saskatoon, Edmonton, Calgary and Lethbridge and the National Harbours Board Elevator at Port Churchill and those elevators at the Pacific Coast delivering grain to vessels on tidal waters were inspected twice during the year. The annual inspection of scales has been carried out in accordance with the Weights and Measures Act and Regulations and certificates of verification issued. The semi-annual inspection was made on behalf of the Board to ensure the continued accuracy of the scales. As in former years special inspections of scales were conducted whenever thought necessary and by request of terminal elevator managers. The annual inspections of scales in elevators licensed as Eastern Elevators at the following points were carried out in accordance with the Weights and Measures Act: Port McNicoll, Tiffin, Midland, Collingwood, Owen Sound, Goderich, Sarnia, Walkerville, Port Colborne, Humberstone, Toronto, Kingston, Prescott, Montreal, Sorel, Three Rivers, Quebec, Saint John and Halifax. The inspections of the above scales were carried out by the Assistant Chief Weighmaster and myself.

Fewer complaints were received than in previous years on the outturns of cars unloaded into Terminal Elevators, due chiefly I think to the better equipment being used by the railways in this traffic and that more attention is being paid to the proper installation of grain doors. There is still room for improvement as there are too many cars arriving at Terminal Elevators reported leaking at grain doors. Complaints received were thoroughly investigated and in the majority of cases it was found that cars had been reported leaking.

During the crop year there were 1,458 cargoes loaded at the Lakehead, 417 cargoes at Vancouver and 20 cargoes at Churchill. Enclosed is statement showing the average reported shortage of pounds per 1,000 bushels on vessel shipments loaded at Fort William and Port Arthur during the crop year 1950-51,

and unloaded at Canadian and American Ports. It is gratifying to note that there is a considerable reduction in the loss of pounds per 1,000 bushels of grain unloaded at Canadian Ports, but unfortunately there is an increase in the loss of pounds per 1000 bushels of grain unloaded at American Ports, but there is still quite a reduction in the loss per 1,000 bushels shown in the grand totals. Complaints received on the outturns of cargoes have been thoroughly investigated and reports submitted to the Board. However, there are some complaints still under investigation and reports will be forwarded to the Board when these investigations are completed. Thirteen complaints were received on overseas shipments loaded at Lower St. Lawrence Ports and four complaints were received on overseas shipments loaded at Pacific Coast Ports. These were thoroughly investigated and reports submitted to the Board. Satisfactory settlements are being effected on some of the complaints on parcels of grain loaded at Lower St. Lawrence Ports.

The annual audits of grain in store in licensed elevators in the Eastern and Western Divisions were carried out as far as possible. All elevators licensed as Eastern Elevators were weighed over during the crop year, but the weighovers of several terminal elevators in the Western Division had to be postponed and were not weighed over during the time limit specified by the Canada Grain Act. Order-in-Council P.C. 5122 was passed to give the Board authority to defer the weighover at any terminal elevator until such time as such weighover is possible or practical, having regard to transportation difficulties. I might say that some improvement has taken place and that several audits have been conducted when possible since the passing of the above order-in-council. The total quantities of grain weighed over in Public Terminal and Semi-Public Terminal Elevators and the first four grades of Wheat, and the grades of 1 and 2 Canada Western Garnet Wheat, as specified in Schedule I of the Act amounted to 22,093,405-00 Bushels. The total amount of all grain weighed in the Eastern Division was 20,756,609-00 Bushels.

Statements of the correct quantities of the various grades in store in each of the above elevators weighed over were prepared by this Branch and forwarded to the Board to permit of the adjustments of outstanding warehouse receipts in Public and Semi-Public Terminal Elevators; and the establishment of overages in Terminal Elevators and Eastern Elevators; in accordance with the provisions of Section 138 and 138A of the Canada Grain Act.

It has been very difficult throughout the year to secure suitable help for replacements and at busy periods. In competitions for Grain Trackmen, applications have been few and the caliber of the applicants on the whole has not been very high. Several of the men we have engaged have resigned after a few months, the reason given that the salary was insufficient. Most of these employees resigned to accept positions with Terminal Elevator Companies at more attractive salaries.

It is with regret that we record the deaths of Mr. H. J. Chenier, Nov. 22, 1951; Mr. C. Moore, April 13, 1951; Mr. J. S. Robertson, January 3, 1951 and Mr. J. McCulloch, December 2, 1950.

The following employees of this Branch retired on the dates effective below:

H. H. Reimer	Grain Weighman	Medicine Hat	May 16/51,	21 years service
F. C. Gilliam	Grain Weighman	Fort William	June 3/51,	30 years service
M. Herd	Grain Trackman	Fort William	Dec. 1/50,	22 years service
H. Carruthers	Grain Weighmaster	Vancouver	Mar. 23/51,	28 years service
A. S. Barnett	Grain Trackman	Vancouver	Feb. 5/51,	22 years service

Respectfully submitted,

S. M. CAPON,

Chief Weighmaster.

GROSS HANDLINGS OF ALL GRAINS, WEST OF FORT WILLIAM-PORT ARTHUR,
DURING CROP YEAR 1950-51

RECEIPTS

Point	Wheat	Oats	Barley	Rye	Flax- seed	Canadian Corn	U.S.A. Wheat	U.S.A. Barley	U.S.A. Corn	Canadian Miscel- laneous
	bus.	bus.	bus.	bus.	bus.	bus.	bus.	bus.	bus.	lbs.
Vancouver and New Westminster.....	60,891,441	1,283,924	3,336,002	8,298	464,477			2,345,808	102,421	5,416,430
Victoria.....										
Prince Rupert.....										
Churchill.....	6,956,686									
Calgary.....	650,930	20,164	1,517,382	40,869					14,016	73,220
Edmonton.....	1,420,247	224,105	65,264		1,707				7,122	31,340
Lethbridge.....	64,295		16,333							
Moose Jaw.....	4,570,229	4,429	3,339		3,079					485,750
Saskatoon.....	4,797,029	4,265	1,378		91,034					187,950
North Transcona.....	182,317	60,027	29,819	15,450	4,234		2,749			11,970,865
	79,563,174	1,596,914	4,969,517	64,617	564,531		2,749	2,345,808	123,559	18,165,555

SHIPMENTS

Vancouver and New Westminster.....	68,150,230	2,029,218	2,946,637	11,685	464,448			2,173,963	3,214	80,298,490
Victoria.....										
Prince Rupert.....										
Churchill.....	6,769,239	19,979								7,099,552
Calgary.....	342,705	20,770	1,640,105	49,512					13,984	1,210,410
Edmonton.....	360,760	208,668	47,326		1,276	729			6,828	2,089,560
Lethbridge.....	62,399		16,125							93,900
Moose Jaw.....	240,927	3,830	3,339		1,765					9,573,180
Saskatoon.....	138,073	4,019			91,035					7,457,700
North Transcona.....	181,546	87,202	27,273	15,450	3,059		2,749			3,850,130
	76,245,879	2,373,686	4,680,805	76,647	561,583	729	2,749	2,173,963	24,026	111,672,922

Following are the quantities of the various grains which were weighed into and out of elevators at the following points in the Western Division during the crop year ending July 31st, 1951.

FORT WILLIAM—PORT ARTHUR

RECEIPTS

Grain	Receipts from West	Transfer Receipts		Total
		Rail	Vessel	
	gross bus.	gross bus.	gross bus.	gross bus.
Wheat.....	179,996,956	641,443	2,888	180,641,287
Oats.....	75,006,479	565,335	7,115	75,578,929
Barley.....	58,824,060	1,000,302	13,382	59,837,744
Rye.....	7,979,475	267,343	703,868	8,950,686
Flaxseed.....	2,669,019	23,542		2,692,561
Canadian Western Corn.....	807			807
Canadian Western Buckwheat.....	19,687			19,687
U.S.A. Wheat.....	560,113			560,113
U.S.A. Corn.....	14,105			14,105
Mixed Grain.....	452,645	29,575		482,220
Sample Grain ²	188,387	17,557		205,924
All Screenings ⁴	575,607	141,143		716,750
Grand Total.....				229,700,818

¹ Mixed Grain in bus. of 50 pounds.
² Sample Grain in bus. of 50 pounds.
⁴ Screenings in bus. of 48 pounds.

FORT WILLIAM—PORT ARTHUR—*Concluded*

SHIPMENTS

Grain	Vessel	Rail	Transfer Shipments		Total
			Rail	Vessel	
	gross bus.	gross bus.	gross bus.	gross bus.	gross bus.
Wheat.....	142,012,909	15,517,833	646,627	2,888	158,180,257
Oats.....	45,194,682	22,161,322	571,506	7,115	67,934,625
Barley.....	34,806,199	13,318,870	1,008,448	13,418	49,146,935
Rye.....	8,939,236	59,370	273,210	704,921	9,976,737
Flaxseed.....	3,649,580	1,007,867	24,054		4,681,501
Canadian Western Corn.....					
Canadian Western Buckwheat.....		19,858			19,858
U.S.A. Wheat.....	477,640				477,640
U.S.A. Corn.....		25,404			25,404
Mixed Grain ¹	154,545	238,676	27,773		420,994
Sample Grain ²	11,600	149,402	17,585		178,587
Mixed Feed Oats Groats ³		21,176			21,176
All Screenings ⁴	2,182,362	4,350,768	137,859		6,670,989
Grand Total.....					197,734,703

¹ Mixed Feed Oats Groats in bushels of 34 pounds. (See also foot notes 1, 2 and 4, page 48).

TOTAL CARS WEIGHED AT INTERIOR POINTS OTHER THAN GOVERNMENT
ELEVATORS, CROP YEAR 1950-1951

Keewatin.....	6,226
Winnipeg.....	12,692
Saskatoon.....	6,969
Moose Jaw.....	4,949
Calgary.....	7,237
Edmonton.....	856
Medicine Hat.....	3,761
Lethbridge.....	22
Churchill.....	4,116
Total.....	46,828

REPORT OF CARS ARRIVING AT DESTINATION, LEAKING, NOT PROTECTED BY
SEALS, AND WITH DEFECTIVE SEALS, CROP YEAR 1950-1951

CANADIAN PACIFIC RAILWAY

	Leaking Cars	Missing Seals	Defective Seals
Lakehead Elevators.....	18,206	1,494	277
Elevators, excluding Lakehead.....	6,747	712	504
Total.....	24,953	2,206	781

CANADIAN NATIONAL RAILWAY

	Leaking Cars	Missing Seals	Defective Seals
Lakehead Elevators.....	13,939	926	182
Elevators, excluding Lakehead.....	4,722	339	230
Total.....	18,661	1,315	412
Total both roads.....	43,614	3,521	1,193

CARS REPORTED LEAKING AND WITH MISSING AND DEFECTIVE SEALS IN
WINNIPEG RAILWAY YARDS

	Leaking Cars	Missing and Defective Seals
C.P.R. Yards.....	4,775	1,216
C.N.R. Yards.....	1,901	821
Total.....	6,676	2,037

TRADE AND COMMERCE

REPORT OF TOTAL NUMBER OF CARS OF GRAIN WEIGHED AT ALL POINTS, AND
ALSO THE PERCENTAGE OF SUCH CARS FOUND TO BE LEAKING OR
WITH DEFECTIVE SEALS, CROP YEAR 1950-1951

Total number of Cars Weighed.....	311,627
Total Number of Cars Leaking.....	37,928
Percentage of Cars Leaking.....	12.170%
Total Number of Cars with Missing and Defective Seals.....	6,751
Percentage of Cars with Missing and Defective Seals.....	2.166%

REPORT OF THE AVERAGE REPORTED SHORTAGES OF POUNDS PER 1,000 BUSHELS
ON THE VARIOUS GRAINS LOADED AT FORT WILLIAM AND PORT ARTHUR AND
UNLOADED CANADIAN AND AMERICAN PORTS

CANADIAN PORTS

Grain	Bushels	Pounds per 1,000 Bushels
Wheat.....	109,930,901-40	Short 35.40
Durum Wheat.....	11,683,509-30	Short 31.64
Oats.....	24,156,449-33	Short 20.49
Barley.....	24,889,152-04	Short 26.96
Rye.....	2,993,086-22	Short 39.25
Flaxseed.....	3,630,491-38	Short 23.90
Mixed Grain.....	1,064,690 lbs.	Short 0.611 lbs. per 1,000 lbs.
Sample Grain.....	32,086,333 lbs.	Short 0.351 lbs. per 1,000 lbs.
Screenings.....	5,619-1,700	Short 2.077 lbs. per ton

AMERICAN PORTS

Grain	Bushels	Pounds per 1,000 Bushels
Wheat.....	19,407,733-50	Short 55.64
Durum Wheat.....	567,300-00	Short 61.55
Oats.....	20,908,351-29	Short 23.60
Barley.....	9,587,402-38	Short 65.78
Rye.....	5,878,722-15	Short 75.58
Screenings.....	47,365-1210	Even

GRAND TOTALS—GRAIN SHIPPED

Grain	Bushels	Pounds per 1,000 Bushels
Wheat.....	129,457,224-50	Short 38.44
Durum Wheat.....	12,250,809-30	Short 33.02
Oats.....	45,064,801-28	Short 21.93
Barley.....	34,476,554-42	Short 37.76
Rye.....	8,871,808-37	Short 63.32
Flaxseed.....	3,630,491-38	Short 23.90
Mixed Grain.....	1,064,690 lbs.	Short 0.611 lbs. per 1,000 lbs.
Sample Grain.....	32,086,333 lbs.	Short 0.351 lbs. per 1,000 lbs.
Screenings.....	52,985-0910	Short 0.220 lbs. per ton
U.S.A. Wheat to U.S.A. Ports.....	534,617-50	Short 21.75

SHIPMENTS—EUROPE DIRECT

Wheat.....	118,589-20	(No reports of outturns received. These figures not included in Bill of Lading totals used in calculating average shortage per 1,000 bushels.)
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APPENDIX No. 8

FORT WILLIAM, Ont.,

January 9, 1952.

Mr. A. T. Calder, Secretary,
Board of Grain Commissioners,
Winnipeg, Man.

I have the honour to submit the following report for the Statistics Branch for the 1950-51 Crop Year.

Canada's 1951 Wheat crop is currently estimated by the Dominion Bureau of Statistics at 562 million bushels. This production is more than 100 millions greater than the 1950 outturn and is second in size only to the record 567 million bushels harvested in 1928.

Adverse weather conditions prevailed during almost the entire harvesting season and early snowfall forced farmers to leave a substantial percentage of the crop in the fields. The above estimate is based on actual harvesting operations up to the end of October, 1951, and is therefore conditional on the unthreshed portion of the crop wintering in reasonably good condition and being harvested without significant loss.

Outturns for the principal coarse grains and Flaxseed in 1951 were all well above 1950 harvest levels indicated in brackets:—Oats 493.3 (419.9), Barley 252.9 (171.4), Rye 18.0 (13.3) and Flaxseed 9.2 (4.7) million bushels. Average production of these grains over the past ten years is recorded at:—Oats 406 millions, Barley 168 millions, Rye 12.9 millions and Flaxseed 9.9 million bushels.

Year-end stocks as of July 31st, 1951, were estimated as follows, with 1950 quantities shown in brackets: Wheat 186.4 (112.2), Oats 93.2 (44.9), Barley 52.7 (20.4), Rye 3.4 (6.4) and Flaxseed 1.2 (4.5) million bushels.

The following quantities of grain were disposed of during the year and were either consumed on Canadian farms, sold in the domestic market or exported to other countries—Wheat 387.4, Oats 371.6, Barley 139.0, Rye 16.4 and Flaxseed 8.0 million bushels.

Detailed statistical tables on production, distribution and carry-over are appended to this report.

FARM DELIVERIES

During the 1950-51 crop season a total of 367.5 million bushels of Wheat were marketed from western farms. Deliveries in the crop year 1949-50 amounted to 319.6 millions and a previous 5-year average is recorded at 286.4 million bushels.

WESTERN FARM WHEAT DELIVERIES—SEASON 1950-51

	Manitoba	Saskatchewan	Alberta and British Columbia	Total Deliveries		
				1950-51	1949-50	5-year Average 1945-46 to 1949-50
	net bu.	net bu.	net bu.	net bu.	net bu.	net bu.
Delivered to:						
Country Elevators.....	41,336,419	222,333,428	99,190,735	362,860,582	316,865,726	283,534,659
Interior Private and Mill Elevators.....	355,349	2,140,717	1,478,790	3,974,856	2,309,508	2,430,960
Interior Terminal Elevators (Street Receipts).....	2,376	183	107,491	110,050	12,257	11,299
Loaded over Platforms.....	164,619	198,207	91,556	454,382	359,582	425,764
From farms direct to U.S.A. by truck ¹	15,600	37,813	450	53,863	23,617	12,625
Total.....	41,874,363	224,710,343	100,869,022	367,453,733	319,570,690	286,415,307
Production (Gross).....	50,000,000	260,000,000	119,418,000	429,418,000 ²	344,889,000 ³	343,909,400 ³
Percentage Deliveries to Production ²	85.83	88.58	86.57	87.70	95.69	85.56

¹Dominion Bureau of Statistics—Custom Clearance.

²Calculated on a net production basis.

³Includes production figures for British Columbia.

LAKE TRANSPORTATION

The 1951 season of navigation at the lakehead was opened on April 9th with the arrival of the S.S. Hochelaga. April 29th was the season's opening date last year and March 27th, 1945, is the earliest recorded spring arrival at the Twin City ports. The S.S. Hagarty, the last grain boat to leave the lakehead at the close of the 1951 navigation season cleared the harbour on December 15th.

Vessel clearances from Fort William—Port Arthur for the five principal grains totalled 317.2 million bushels. Excluding the war years when storage facilities at the lakehead were substantially expanded, the current season's shipments are second only to the 385.1 millions moved down the lakes in 1928.

Cargoes of Wheat included in the above totals amounted to 201.4 million bushels and were 63.7 million bushels higher than 1950 lake shipments.

A substantial portion of the 1951 grain cargoes moved to the United States. Lake shipments to U.S. ports totalled 77.3 million bushels as compared with the 39.6 million bushels of principal grains moved from the lakehead to these points during the 1950 season.

Combined lake and rail shipments from Fort William-Port Arthur terminals during the 1950-51 crop year amounted to 286.6 million bushels and included the following individual amounts for the various principal grains:—Wheat 157.5, Oats 67.4, Barley 48.1, Rye 9.0 and Flaxseed 4.6 million bushels. The total movement is only slightly below the 288.3 million bushels moved eastward by lake and rail during the 1949-50 crop year.

Lake and rail shipments during the first five months of the 1951-52 season were maintained at a high level under the direction of the Transport Controller and reached a total of 207.9 million bushels as compared with 119.5 millions during the same period of 1950.

FREIGHT RATES

Maximum lake freight rates on grain movement from the lakehead for the 1951 season were advanced by the Board under date of February 5, 1951. The increase for wheat ranged from 1c. per bushel on cargoes to Bay Ports to 3.5c. per bushel on shipments to Montreal, Sorel, Three Rivers and Quebec. All Wheat cargoes moved at the maximum rates allowable during the season although the additional 2c. per bushel on December cargoes was fully utilized in only a few instances.

WEIGHTED AVERAGE OF LAKE FREIGHT RATES FOR WHEAT CARGOES
SEASON OF NAVIGATION 1951

Fort William—Port Arthur to:	April to November	December	Average for Season 1951	Average for Season 1950
	c. per. bu.	c. per bu.	c. per bu.	c. per bu.
Georgian Bay Ports.....	5.5	6.650	5.595	4.5
Port Colborne-Humberstone.....	7.5	8.930	7.541	6.0
Toronto.....	8.0	.....	8.0	6.5
Kingston.....	.....	.....	.....	7.0
Prescott.....	9.0	.....	9.0	7.25
St. Lawrence Ports Direct.....	16.0	.....	16.0	12.5

Rates on cargoes to United States ports were also above 1950 levels. Charters on Wheat to Buffalo, covering the bulk of the heavier United States movement, ranged from an opening 9c. per bushel (U.S. funds) to a high of 13c. (U.S.) in December. Lakehead to Duluth shipping charges advanced from 5½c. per bushel (U.S. funds) in April to 7c. (U.S.) on several December cargoes. The rates to Chicago were steadier at 10c. and 11c. per bushel (U.S.) throughout the season.

A table showing the average rates for the season on movement to both Canadian and U.S. ports is included in the appendix.

EXPORT CLEARANCES

Export clearances of Canadian Wheat and Wheat Flour for the 1950-51 Crop Year amounted to 240.9 million bushels compared with 225.1 millions reported last year.

The delivery of Canadian Wheat to the United States for domestic consumption or milling in bond in 1950-51 increased sharply to the 20.3 million bushel level from 13.5 million bushels imported into the United States during the previous crop season.

Canadian Wheat Flour exports in 1950-51 comprised a larger portion of the combined Wheat and Wheat Flour shipments. Wheat Flour exports amounted to 55.9 million bushels—Wheat equivalent—compared with 45.7 millions in the 1949-50 season.

Average exports of Canadian Wheat and Wheat Flour during the previous five years—1945-46 to 1949-50 inclusive—were as follows—Wheat 187.7 and Wheat Flour 59.3 million bushels.

The bulk of the ocean Wheat tonnage, about 55.6%, moved from Canadian Atlantic Seaboard Ports. Wheat cargoes at Canadian Pacific ports accounted for 39.3% while the Port of Churchill again exceeded its previously established record with the loading out of 6.7 million bushels to account for 4.1 per cent of the overseas clearance Wheat total. The United States Atlantic ports handled only a negligible percentage (.97%) of the total ocean Wheat traffic.

Further data on Canadian grain exports are contained in tables in the appendix to this report.

INSURANCE

During the Crop Year 1950-51 grain insurance policies covering elevator stocks were filed with this office by public country, semi-public and the eastern elevator licensees, in accordance with provisions of Sec. 102 of the Canada Grain Act 1930, as amended, and related Orders-in-Council and regulations.

These insurance documents were carefully scrutinized to verify that they conformed to policy regulations for the protection of the owners of stored grains.

PRICES

Grain price records for the principal grain markets were maintained in compliance with Section 21 of the Canada Grain Act during the crop season.

A summary of cash grain prices for 1950-51 in table form is appended.

GENERAL

A joint meeting with representatives of the Dominion Bureau of Statistics, the Wheat and Grain Division of the Department, and the Marketing Service of the Department of Agriculture was held in Ottawa in the spring to further correlate Canadian grain statistics published by our respective Branches. Preliminary steps were planned towards the elimination of duplicate publications.

Increased interest in grain statistics, stimulated by the size and nature of the 1950 and 1951 crops, has resulted in a 20% expansion in the distribution of the various publications of this Branch during the past year. It has also given rise to a large number of special requests for additional statistics and reports by both government and private trade offices.

Respectfully submitted,
E. E. BAXTER,
Chief Statistician.

CARRY-OVER OF CANADIAN WHEAT—JULY 31, IN BUSHELS

	1951	1950	1949
	bu.	bu.	bu.
On Farms—Estimated.....	22,259,600	12,389,000	43,423,000
In Country, Private Terminals and Mill Elevators.....	80,631,227	28,520,704	18,841,225
In Public and Semi-Public Elevators.....	47,697,901	29,968,821	10,156,932
In Store and Afloat Eastern Elevators.....	17,760,965	31,419,680	20,735,093
In Eastern Flour Mills.....	1,676,000	1,602,485	2,764,454
In Transit Rail—East and West.....	14,393,371	8,298,853	6,422,043
In Store and In Transit in the United States.....	2,013,104		68,494
Total.....	186,432,168	112,199,543	102,411,241

Crops of 1950 and Disposition	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Carry-over July 31, 1950.....	112,199,543	44,904,579	20,355,035	6,431,085	4,467,771
Production—All Canada.....	461,664,000	419,930,000	171,393,000	13,333,000	4,686,000
Total Available Supply.....	573,863,543	464,834,579	191,748,035	19,764,085	9,153,771
Total Disposed of.....	387,431,375	371,632,008	138,980,804	16,397,301	7,990,852
Carry-over July 31, 1951.....	186,432,168	93,202,571	52,767,231	3,366,784	1,162,919
Total.....	573,863,543	464,834,579	191,748,035	19,764,085	9,153,771

EXPORTS

1950-51.....	185,039,364	34,717,707	23,075,989	9,367,374	4,131,129
Wheatflour, Oatmeal, etc., equivalent to.....	55,921,482	679,406			
Total.....	240,960,846	35,397,113	23,075,989	9,367,374	4,131,129
1949-50.....	179,456,880	19,142,629	17,523,406	9,954,111	3,033,825
Wheatflour, Oatmeal, etc., equivalent to.....	45,679,905	1,403,909			
Total.....	225,136,785	20,546,538	17,523,406	9,954,111	3,033,825

**SUMMARY OF PRODUCTION OF GRAIN IN WESTERN CANADA IN 1950, PRIMARY
MARKETINGS BY PRODUCERS AND TOTAL INSPECTIONS,
CROP YEAR 1950-51**

	Wheat (All Varieties)	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
(A) PRODUCTION					
Manitoba.....	50,000,000	70,000,000	55,000,000	1,300,000	2,900,000
Saskatchewan.....	260,000,000	112,000,000	46,000,000	6,200,000	1,000,000
Alberta and British Columbia.....	119,418,000	74,703,000	56,372,000	3,716,000	421,000
Total.....	429,418,000	256,703,000	157,372,000	11,216,000	4,321,000
(B) PRIMARY MARKETINGS—					
† At Country Elevators					
Manitoba.....	41,336,419	29,965,558	35,474,354	961,485	2,216,734
Saskatchewan.....	222,333,428	50,000,450	25,376,554	4,521,171	551,810
Alberta.....	99,190,735	20,553,866	21,678,820	2,010,988	265,542
Total.....	362,860,582	100,519,874	82,529,728	7,493,644	3,034,086
<i>Loaded over Platforms</i>					
Manitoba.....	164,619	144,391	215,651		10,955
Saskatchewan.....	198,207	30,272	13,068	779	29,033
Alberta.....	91,556	135,259	23,596	6,671	
Total.....	454,382	309,922	252,315	7,450	39,988
<i>At Interior Public and Semi- Public Terminals</i>					
Manitoba.....	2,376	2,257	13,907		22
Saskatchewan.....	183				
Alberta.....	107,491	204,051	51,900		1,375
Total.....	110,050	206,308	65,807		1,397
† At Interior Private and Mill Elevators					
Manitoba.....	355,349	228,628	72,057		151,829
Saskatchewan.....	2,140,717	219,243	115,959	27,382	13,447
Alberta.....	1,478,790	602,577	140,338	7,821	12,354
Total.....	3,974,856	1,050,448	328,354	35,203	177,630
* Trucked from farms into U.S.A.					
Manitoba.....	15,600	604	212		
Saskatchewan.....	37,813	777	40		
Alberta.....	450	979	247		
Total.....	53,863	2,360	499		
<i>Total Marketed</i>					
Manitoba.....	41,874,363	30,341,438	35,776,181	961,485	2,379,540
Saskatchewan.....	224,710,348	50,250,742	25,505,621	4,549,332	594,290
Alberta.....	100,869,022	21,496,732	21,894,901	2,025,480	279,271
Total.....	367,453,733	102,088,912	83,176,703	7,536,297	3,253,101
(C) INSPECTIONS					
Manitoba.....	39,658,375	27,503,984	34,242,971	952,379	1,863,450
Saskatchewan.....	181,851,915	46,859,077	23,895,928	4,957,239	901,207
Alberta and British Columbia.....	82,449,783	10,705,638	12,834,552	1,800,842	271,163
Total.....	303,960,073	85,068,699	70,973,451	7,710,460	3,035,820

(A) Production represents gross production estimate by Dominion Bureau of Statistics.

(B) Primary Marketings—Points in Ontario west of Fort William are included in Manitoba figures; country points in the Peace River valley situated in British Columbia are included in Alberta figures.

(C) Inspections—These are compiled according to provinces in which grain was grown on an estimated average net bushel outturn weight per car.

* Customs returns—Dominion Bureau of Statistics.

† Subject to revision.

TRADE AND COMMERCE

TOTAL PRIMARY GRAIN HANDLINGS AT EASTERN ELEVATORS 1950-51

CANADIAN GRAIN

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Receipts.....	137,255,402	26,729,804	24,571,056	3,126,822	4,222,754
Shipments.....	149,868,758	24,461,397	19,440,874	3,677,218	5,500,061
	Canadian Corn	Canadian Beans	Canadian Buckwheat	Canadian Peas	Mixed Grain
	bu.	bu.	bu.	bu.	lbs.
Receipts.....	1,665,581	624,503	291,501	.....	728,770
Shipments.....	1,304,776	612,929	286,115	1,703	1,260,820

UNITED STATES GRAIN

—	Wheat	Barley	Rye	Flaxseed	Corn
	bu.	bu.	bu.	bu.	bu.
Receipts.....	11,357,015	571,793	123,359	946,573	23,340,845
Shipments.....	14,344,671	1,281,841	123,247	763,662	24,638,918

—	Beans
	bu.
Receipts.....	2,084,199
Shipments.....	2,078,702

FOREIGN GRAIN (OTHER THAN U.S.A.)

—	Argentine Oats
	bu.
Receipts.....	1,310,400
Shipments.....	1,803,381

IMPORTS OF FOREIGN GRAIN FOR CANADIAN DOMESTIC CONSUMPTION

(AMOUNTS MOVED FROM ELEVATORS INTO DOMESTIC CONSUMPTIVE CHANNELS) 1950-51

—	U.S.A. Wheat	U.S.A. Oats	U.S.A. Barley	U.S.A. Rye	U.S.A. Flaxseed
	bu.	bu.	bu.	bu.	bu.
Via Eastern Elevators.....	113	.....	.....	.....	763,662
Fort William—Port Arthur.....	.....	.....	.....	.....	.....
Interior Terminals.....	.....	.....	.....	.....	.....
Interior Private and Mill Elevators.....	.....	.....	.....	28,518	.....

—	U.S.A. Corn	U.S.A. Beans	Argentine Oats
	bu.	bu.	bu.
Via Eastern Elevators.....	6,148,120	172,252	1,196,297
Fort William—Port Arthur.....	25,404	.....	.....
Interior Terminals.....	13,983	.....	.....
Interior Private and Mill Elevators.....	570,503	.....	.....

PRIMARY RECEIPTS AND SHIPMENTS OF CANADIAN GRAIN AT TERMINAL
ELEVATORS, CROP YEAR 1950-1951

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
<i>Fort William-Port Arthur—</i>					
Receipts.....	175,648,710	74,147,483	57,994,862	7,657,069	2,418,778
Shipments.....	157,532,578	67,356,004	48,121,375	8,997,717	4,565,893
<i>Vancouver-New Westminster—</i>					
Receipts.....	57,469,281	1,215,170	3,173,634	8,117	464,347
Shipments.....	66,476,059	1,981,013	2,833,107	11,685	464,370
<i>Victoria, B.C.—</i>					
Receipts.....					
Shipments.....					
<i>Prince Rupert, B.C.—</i>					
Receipts.....					
Shipments.....					
<i>Churchill, Man.—</i>					
Receipts.....	6,774,365	601			
Shipments.....	6,769,238	19,978			
<i>Semi-Public Terminal at North Transcona, Man.—</i>					
Receipts.....	181,793	59,980	29,648	15,450	3,557
Shipments.....	181,546	87,202	27,273	15,450	3,041

TOTAL NET HANDLINGS OF CANADIAN GRAIN AT CANADIAN GOVERNMENT
INTERIOR TERMINAL ELEVATORS

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
<i>Receipts—</i>					
Calgary.....	661,282	19,905	1,516,541	40,842	
Edmonton.....	1,372,300	222,291	64,915		1,375
Lethbridge.....	62,399		16,139		
Moose Jaw.....	4,430,151	4,429	3,339		1,721
Saskatoon.....	4,649,839	4,218	1,363		90,912
Total.....	11,175,971	250,843	1,602,297	40,842	94,008
<i>Shipments—</i>					
Calgary.....	342,705	20,770	1,640,105	49,512	
Edmonton.....	360,760	208,668	47,326		1,250
Lethbridge.....	62,399		16,125		
Moose Jaw.....	240,927	3,830	3,339		1,721
Saskatoon.....	138,073	4,019			91,031
Total.....	1,144,864	237,287	1,706,895	49,512	94,002

CANADIAN GRAIN HANDLED AT DULUTH-SUPERIOR

(INCLUDING DUTY-PAID IMPORTS)

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Receipts.....	3,928,182	267,428	349,450	98,713	
Shipments.....	3,400,912	267,428	349,450	98,713	

ANALYSIS OF CANADIAN WHEAT EXPORTS, BY MONTHS AND SEABOARD SECTOR, CROP YEAR 1950-51

Month	Via Canadian Pacific Seaboard Ports	Via Canadian Atlantic Seaboard Ports	Via Churchill	Via Fort William- Port Arthur Direct	Via U.S.A. Atlantic Seaboard Ports	U.S.A. IMPORTS ¹		TOTAL ALL WHEAT	WHEAT AND FLOUR ²	GRAND TOTAL WHEAT AND WHEAT FLOUR
						For Domestic Use	Milling in Bond			
1950	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
August.....	1,454,972	7,469,275	3,032,350	.....	.....	.....	458,735	12,415,332	3,060,045	15,475,377
September.....	3,686,225	6,021,969	3,382,593	56,000	24,994	11,888	892,137	14,075,806	2,273,063	16,348,869
October.....	3,222,029	9,361,786	352,800	.....	13,025	98,287	801,814	13,849,741	3,651,768	17,501,509
November.....	4,332,839	11,461,865	.....	.....	6,100	387,041	1,620,283	17,808,128	5,669,190	23,477,318
December.....	4,319,903	3,696,724	.....	.....	13,116	904,504	1,244,287	10,178,534	4,156,816	14,335,350
1951										
January.....	6,293,130	3,598,067	.....	.....	.....	1,761,909	173,050	11,826,156	5,699,637	17,525,793
February.....	5,978,190	3,281,110	.....	.....	.....	928,852	.....	10,188,152	4,727,205	14,915,357
March.....	5,661,491	3,880,276	.....	.....	426,800	1,097,158	.....	11,065,725	5,221,310	16,287,035
April.....	5,640,564	3,882,947	.....	.....	80,565	3,008,295	96,708	12,709,079	5,808,618	18,517,697
May.....	8,297,280	6,842,528	.....	.....	.....	2,523,299	35,039	17,698,146	6,677,271	24,375,417
June.....	8,881,608	13,835,105	.....	62,589	523,043	2,057,962	139,783	25,500,090	4,813,096	30,313,186
July.....	7,020,974	18,146,604	.....	.....	494,559	2,062,338	.....	27,724,475	4,163,463	31,887,938
Total Crop Year 1950-51.....	64,789,205	91,478,256	6,767,743	118,589	1,582,202	14,841,533	5,461,836	185,039,364	55,921,482	240,960,846
Total Crop Year 1949-50.....	61,339,354	98,760,090	5,527,535	199,124	143,443	2,210,031	11,277,303	179,456,880	45,679,905	225,136,785
5-year average 1945-46 to 1949-50.....	55,945,977	100,344,673	3,749,301	39,825	21,074,574	1,010,188	5,566,502	187,731,040	59,351,859	247,082,899

¹Compiled from returns of Canadian Elevator licensees and shippers and advice from American grain correspondents.²Canadian Customs Returns, published by the Dominion Bureau of Statistics, adjusted to remove effect of time lag in reports made by the Customs.

ANALYSIS OF CANADIAN GRAIN OVERSEAS EXPORTS, BY GRADE AND SEABOARD
SECTOR, CROP YEAR 1950-51

Grades	Via Canadian Pacific Seaboard Ports	Via ¹ Canadian St. Lawrence —Atlantic Seaboard Ports	Via United States Atlantic Seaboard Ports	GRAND TOTAL
	bu.	bu.	bu.	bu.
<i>Wheat (Including Durum)—</i>				
1 Man. Hard.....				
1 Man. Northern.....	10,720,854	9,288,912	41,336	20,051,102
2 Man. Northern.....	15,733,240	29,229,389	201,302	45,163,931
3 Man. Northern.....	16,594,289	10,111,543		26,705,832
4 Man. Northern.....	12,009,631	12,180,626		24,190,257
No. 5.....	5,636,670	15,833,970	451,773	21,922,413
No. 6.....	134,773	380,214	407,172	922,159
Feed.....		255,232		255,232
Tough 3 Man. Northern.....		5,160,989		5,160,989
1 C.W. Garnet.....	21,367	27,776		49,143
2 C.W. Garnet.....	572,312	407,730		980,042
3 C.W. Garnet.....	2,574,422	270,836		2,845,258
1 Alberta Red Winter.....	344,661	101,977		446,638
2 Alberta Winter.....	379,440	78,513		457,953
3 Alberta Winter.....	63,712			63,712
Other Western.....	3,834	321,976	80,565	406,375
Eastern.....		3,114,722		3,114,722
2 C.W. Amber Durum.....		945,949		945,949
3 C.W. Amber Durum.....		7,029,047	236,933	7,265,980
4 C.W. Amber Durum.....		3,615,697		3,615,697
Other Durum.....		9,490	163,121	172,611
Total.....	64,789,205	98,364,588	1,582,202	164,735,995
<i>Oats—</i>				
2 C.W.....	7,353	49,675		57,028
Ex. 3 C.W.....		191,090		191,090
3 C.W.....		718,736		718,736
Ex. 1 Feed.....	58,235	6,484		64,719
1 Feed.....	157,941	2,263,863		2,421,804
2 Feed.....	5,882			5,882
Mixed Feed.....	315,800	314,554		630,354
Eastern.....		66,011		66,011
Total.....	545,211	3,610,413		4,155,624
<i>Barley—</i>				
3 C.W. Six-Row.....	5,444			5,444
3 C.W. Two-Row.....	98,040	68,960		167,000
3 C.W. Yellow.....	6,628			6,628
1 Feed.....	1,395,921	6,181,533		7,577,504
2 Feed.....	1,141,389	2,704,901		3,846,290
3 Feed.....	35,551	671,439		706,990
Tf. 2 Feed.....		34,960		34,960
Sample.....		143,061		143,061
Total.....	2,682,973	9,804,904		12,487,877
<i>Rye—</i>				
2 C.W.....		2,413,521	2,725,037	5,138,558
3 C.W.....		617,783	317,275	935,058
Eastern.....		6,485		6,485
Total.....		3,037,789	3,042,312	6,080,101
<i>Flaxseed—</i>				
1 C.W.....	266,596	3,512,273		3,778,869
2 C.W.....	197,330	140,778		338,108
3 C.W.....		14,152		14,152
Total.....	463,926	3,667,203		4,131,129

¹Includes clearances via the Port of Churchill and via Fort William—Port Arthur direct.

EXPORT CLEARANCES OF CANADIAN GRAIN TO OVERSEAS DESTINATION BY SEABOARD PORTS, CROP YEAR 1950-51

Loaded at	Wheat (All Varieties)	Oats	Barley	Rye	Flaxseed	Grand Total All Grains
	bu.	bu.	bu.	bu.	bu.	bu.
Vancouver-New Westminster.	64,789,205	545,211	2,682,973		463,926	68,481,315
Victoria.....						
Prince Rupert.....						
Montreal.....	49,102,720	3,218,507	5,350,480	1,454,448	3,317,843	62,443,998
Sorel.....	7,816,411	19,918	1,927,331	452,636		10,216,296
Three Rivers.....	10,376,874					10,376,874
Quebec.....	8,768,462	297,572	1,823,354	913,410		11,802,798
St. John.....	443,494		68,099	19,704		531,297
West St. John.....	9,889,091	74,416	635,640	197,591	349,360	11,146,098
Halifax.....	5,081,204					5,081,204
Churchill.....	6,767,743					6,767,743
Fort William-Port Arthur (Direct).....	118,589					118,589
Total—Canadian Ports.....	163,153,793	4,155,624	12,487,877	3,037,789	4,131,129	186,966,212
Albany.....	299,835			222,449		522,284
Baltimore.....	443,810			2,819,863		3,263,673
Boston.....	762,868					762,868
New York.....	57,235					57,235
Philadelphia.....	18,454					18,454
Total—U.S.A. Ports.....	1,582,202			3,042,312		4,624,514
Total to Overseas.....	164,735,995	4,155,624	12,487,877	6,080,101	4,131,129	191,590,726
Wheat Flour ¹	55,921,482					55,921,482
Rolled Oats and Oatmeal ²		679,406				679,406
U.S.A. Imports ³	20,303,369	30,562,083	10,588,112	3,287,273		64,740,837
Grand Total.....	240,960,846	35,397,113	23,075,989	9,367,374	4,131,129	312,932,451

¹Canadian Customs returns converted to bushels, adjusted to remove effect of time lag in reports made by the Customs.

²Canadian Customs returns converted to bushels.

³Compiled from returns of Canadian Elevator licensees and shippers and advice from American grain correspondents.

WEIGHTED AVERAGE LAKE FREIGHT RATES FOR SHIPMENTS OF GRAIN FROM
FORT WILLIAM—PORT ARTHUR
SEASON OF NAVIGATION 1951

—	Wheat	Oats	Barley	Rye	Flaxseed
	c. per bu.	c. per bu.	c. per bu.	c. per bu.	c. per bu.
Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	5.595	5.019	5.337	5.5	7.5
Humberstone.....	7.658				
Port Colborne.....	7.5	6.75	7.25	7.5	
Toronto.....	8.0	7.25	7.5		
Kingston.....		8.0	8.25		
Prescott.....	9.0	8.25	8.5		
Montreal.....	16.0	12.5	15.25	16.0	17.0
Montreal via Humberstone.....	16.0		15.25		17.0
Montreal via Port Colborne.....	16.0	12.5	15.25	16.0	17.917
Montreal via Toronto.....	16.0			16.0	
Montreal via Kingston.....	16.0	12.5	15.25	16.0	17.0
Montreal via Prescott.....	16.0		15.25		17.0
Sorel.....	16.0	12.5			
Sorel via Port Colborne.....	16.0	12.5	15.25	16.0	
Sorel via Kingston.....	16.0				
Sorel via Prescott.....	16.0	12.5			17.0
Three Rivers.....	16.0				
Quebec.....	16.0	14.0	15.25		
Quebec via Prescott.....	16.0				
Buffalo.....	10.386	8.48	9.877	10.56	
Chicago.....	10.815	8.215		10.59	
Detroit.....	10.0		10.0		
Duluth-Superior.....	6.366	4.729	6.341		
Erie.....	8.901				
Huron.....		8.199			
Manitowoc.....			9.894		
Milwaukee.....	11.109		10.039		
Oswego.....	11.367			12.19	
Toledo.....	9.0				

NOTE.—Where charters are written in American funds, a premium has been added for conversion to Canadian money.

BOARD OF GRAIN COMMISSIONERS FOR CANADA—STATISTICS BRANCH
MONTHLY AVERAGE FIXED WESTERN GRAIN PRICES AND OPEN MARKET CLOSING CASH QUOTATIONS, CROP YEAR 1950-1951

	Aug. 1950	Sept.	Oct.	Nov.	Dec.	Jan. 1951	Feb.	March	April	May	June	July	Yearly Average
(Cents and eighths per bushel)													
(a) CANADIAN WHEAT BOARD CASH PRICES													
WHEAT													
(1) Initial payment to Producers													
1950-51 Pool													
1 Hard.....	160	160	160	160	160	160	160	160	160	160	160	160	160
1 Northern.....	160	160	160	160	160	160	160	160	160	160	160	160	160
2 Northern.....	157	157	157	157	157	157	157	157	157	157	157	157	157
3 Northern.....	150	150	150	150	150	150	150	150	150	150	150	150	150
4 Northern.....	142	142	142	142	142	142	142	142	142	142	142	142	142
Number 5.....	132	132	132	132	132	132	132	132	132	132	132	132	132
Number 6.....	126	126	126	126	126	126	126	126	126	126	126	126	126
Feed.....	120	120	120	120	120	120	120	120	120	120	120	120	120
(2) Domestic and Exports													
(International Wheat Agreement)													
1 Hard.....	198	198	189/5	187/2	189/3	189/3	188/7	188/5	190/6	191/3	192/4	190/7	191/2
1 Northern.....	198	198	189/5	187/2	189/3	189/3	188/7	188/5	190/6	191/3	192/4	190/7	191/2
2 Northern.....	194/5	194/7	186/5	184/2	186/3	186/3	185/7	185/5	188/5	189/3	190/4	188/7	188/4
3 Northern.....	192/1	190	181/5	179/2	182	182/5	183/2	183/4	186/5	187/3	188/4	186/7	185/2
4 Northern.....	189/4	186/2	176/2	173/2	176/6	177/7	179/2	179/4	182/5	183/3	184/4	182/7	181
Number 5.....	178	178	164/4	158	162/5	167/3	171/7	175/4	180/1	181/3	182/4	180/7	173/3
Number 6.....	174	174	160/4	154	158	164/2	168/7	172/4	176/3	175	166/6	153/6	166/4
Feed.....	172	171/1	156/6	149/2	151/3	152/1	158/1	163/6	169/3	167/3	160/6	147/6	160
1 C.W. Garnet.....	192/2	190	181/5	179/2	181/3	182	181/7	181/4	186/4	188/3	189/4	187/7	185/1
2 C.W. Garnet.....	189/7	187	178/5	176/2	179	181	180/7	180/4	185/4	187/3	188/4	186/7	183/4
3 C.W. Garnet.....	187/7	184/1	175/5	173/2	175/3	176	175/7	175/4	181	183/3	184/4	182/7	179/5
1 Alberta Red Winter.....	198	198	189/5	187/2	189/3	189/3	188/7	188/4	190/6	191/3	192/4	190/7	191/2
2 Alberta Red Winter.....	196/4	195	185/1	182/2	185	186/3	185/7	185/5	188/5	189/3	190/4	188/7	188/2
3 Alberta Winter.....	192/7	190	181/5	179/2	181/3	181/3	180/7	180/4	183/5	184/3	185/4	183/7	183/6
1 C.W. Amber Durum.....	198	198	189/5	187/2	189/3	189/3	188/7	188/4	190/6	191/3	192/4	191/7	191/2
2 C.W. Amber Durum.....	195/2	196	187/5	185/2	187/3	187/3	186/7	186/4	188/6	189/3	190/4	188/7	189/1
3 C.W. Amber Durum.....	191/3	186/1	177/5	175/2	177/3	177/3	180/2	184/4	186/6	187/3	188/4	186/7	183/2
(3) Export—Class II													
1 Hard.....	203/6	199/1	195/6	194/2	196/3	201/4	213/1	219/7	227/1	229/6	232/2	234/6	212/2
1 Northern.....	203/6	199/1	195/6	194/2	196/3	201/4	213/1	219/7	227/1	229/6	232/2	234/6	212/2
2 Northern.....	200/3	196	192/6	191/2	193/3	198/4	210/1	216/7	225	227/6	230/2	232/6	209/5
3 Northern.....	197/7	191/1	187/6	186/2	189	194/6	207/3	214/7	223	225/6	228/2	230/6	206/3

OATS ²												
(1) Initial Payment to Producers												
1950-51 Pool												
4 Northern.....	182/1	182/2	183/6	190/1	203/3	210/7	219	221/6	224/2	226/6	204/2	
Number 5.....	161/7	158	162/5	167/3	171/7	175/4	180/1	181/3	186	186/7	173/1	
Number 6.....	157/7	154	158	164/2	168/7	172/4	176/3	175	170/2	159/6	165/5	
Feed.....	153/7	149/2	151/3	152/1	158/1	163/6	169/3	167/3	164/2	153/6	158/3	
1 C.W. Amber Durum.....	199/1	195/6	196/3	201/4	213/1	219/7	227/1	229/6	232/2	234/6	212/2	
2 C.W. Amber Durum.....	201	193/6	192/2	194/3	211/1	217/7	225/1	227/6	230/2	232/6	210/2	
3 C.W. Amber Durum.....	186/1	181/1	182/2	184/3	204/4	215/7	223/1	225/6	228/2	230/6	204	
BARLEY ²												
(1) Initial Payment to Producers												
1950-51 Pool												
1 C.W. Six-Row.....	115	115	115	115	115	115	115	115	115	115	115	
2 C.W. Six-Row.....	115	115	115	115	115	115	115	115	115	115	115	
1 C.W. Two-Row.....	109	109	109	109	109	109	109	109	109	109	109	
2 C.W. Two-Row.....	109	109	109	109	109	109	109	109	109	109	109	
3 C.W. Six-Row.....	113	113	113	113	113	113	113	113	113	113	113	
2 C.W. Yellow.....	109	109	109	109	109	109	109	109	109	109	109	
3 C.W. Yellow.....	107	107	107	107	107	107	107	107	107	107	107	
4 C.W. Six-Row.....	108	108	108	108	108	108	108	108	108	108	108	
3 C.W. Two-Row.....	107	107	107	107	107	107	107	107	107	107	107	
1 Feed.....	107	107	107	107	107	107	107	107	107	107	107	
2 Feed.....	100	100	100	100	100	100	100	100	100	100	100	
3 Feed.....	95	95	95	95	95	95	95	95	95	95	95	

For footnotes see page 65.

BOARD OF GRAIN COMMISSIONERS FOR CANADA—STATISTICS BRANCH—Concluded
MONTHLY AVERAGE FIXED WESTERN GRAIN PRICES AND OPEN MARKET CLOSING CASH QUOTATIONS, CROP YEAR 1950-51—Concluded

	Aug. 1950	Sept.	Oct.	Nov.	Dec.	Jan. 1951	Feb.	March	April	May	June	July	Yearly Average
(Cents and eighths per bushel)													
<i>(a) CANADIAN WHEAT BOARD CASH PRICES—</i>													
<i>Barley²—Concluded</i>													
<i>(2) Domestic and Export³</i>													
1 C.W. Six-Row.....	154/1	153/6	159/6	154/7	148/7	159/7	170/1	168/6	162/1	138/4	128/1	123	151/7
2 C.W. Six-Row.....	154/1	153/6	159/6	154/7	148/7	159/7	170/1	168/6	162/1	138/4	128/1	123	151/7
1 C.W. Two-Row.....	145	144	149/2	147/1	141/7	154/7	165/1	163/6	157/1	133/4	123/7	121	145/4
2 C.W. Two-Row.....	145	144	149/2	147/1	141/7	154/7	165/1	163/6	157/1	133/4	123/7	121	145/4
3 C.W. Six-Row.....	152/1	151/6	157/6	152/7	146/7	157/7	168/1	166/6	160/1	136/4	126/2	120	149/6
2 C.W. Six-Row.....	146/6	143/6	142/1	144/4	139/7	150/7	161/1	159/6	152/7	127/4	120/4	119/4	142/3
3 C.W. Yellow.....	144/6	141/6	140/1	143/2	138/7	149/7	160/1	158/6	151/7	125/4	118/4	117/4	140/7
4 C.W. Six-Row.....	144/5	141/6	141/5	146/3	140/7	151/7	162/1	160/6	154/1	130/4	120/2	116/4	142/5
3 C.W. Two-Row.....	143/5	139/4	136/7	140	134	143/7	153/1	151/6	145/3	124/3	117/1	116/3	137/1
1 Feed.....	143/5	138/7	135/4	139/5	134	143/7	153/1	151/6	145/3	124/3	117/1	115/7	136/7
2 Feed.....	139/6	136/2	130/1	135/6	130/4	140/5	149/4	147/6	141/3	120/3	113/1	110/6	133
3 Feed.....	133/6	130/7	124/5	130/1	123/3	133	141/1	139/6	133/3	111/6	103/7	103/3	125/6
<i>(b) WINNIPEG GRAIN EXCHANGE CASH</i>													
<i>OATS—</i>													
<i>(1) Domestic and Export—</i>													
2 C.W.....	90/7	91/1	88/5	95	98/1	104/7	110	106/1	104/6	92/3	83/4	80/6	95/4
Ex. 3 C.W.....	88/2	88/4	87/1	93/2	95/1	101/2	106/1	102/2	100/6	89/2	80/7	78	92/5
3 C.W.....	87/1	88/2	85/3	92/1	94/6	100/1	104/6	100/5	98/1	88/5	80/4	77/6	91/4
Ex. 1 Feed.....	86/2	87/6	85	92/3	94/6	100/1	104/7	100/5	98/1	88/5	80/4	77/6	91/4
1 Feed.....	82/5	86/4	82/4	88/7	87/6	96/3	101	97/2	95/4	87/1	79/4	76/3	89
2 Feed.....	82/5	83/3	79/1	84/2	87/6	94/2	99/2	95	93/1	84/6	76/1	72/7	86
3 Feed.....	79/3	79	74/7	79/6	83/4	90/6	96/4	92/2	90/1	82	73/3	69/7	82/5
<i>BARLEY—</i>													
<i>(1) Domestic and Export—</i>													
1 C.W. Six-Row.....	149/4	152/1	156/2	152	144/5	154/7	165/1	163/6	156	132/3	123/3	120/6	147/4
2 C.W. Six-Row.....	149/4	152/1	156/2	152	144/5	154/7	165/1	163/6	156	132/3	123/3	120/6	147/4
1 C.W. Two-Row.....	142	143	146/5	139/1	139/2	148/6	159/1	157/6	150	127/5	120/6	119/1	141
2 C.W. Two-Row.....	142	143	145/5	139/1	139/2	148/6	159/1	157/6	150	127/5	120/6	119/1	141
3 C.W. Six-Row.....	147/4	150/1	154/2	150/1	142/5	152/7	163/1	161/6	154	130/3	121/3	119/1	145/5
2 C.W. Six-Row.....	142	138/3	137/1	137/1	137/2	146/6	157/1	155/6	148/4	127/7	120/4	119/3	139
3 C.W. Yellow.....	141/7	138/1	135/3	136/7	135/2	144/6	155/1	153/6	146/4	125/7	118/4	117/1	137/3

4 C.W. Six-Row.....	141/7	138/3	139/3	140/6	136/1	147/7	158/1	156/6	148/7	125	117/6	116/1	138/7
3 C.W. Two-Row.....	141/6	138	134/6	136/7	133/3	143/2	152/3	151/1	144/4	123/7	116/3	115/2	136
1 Feed.....	141/6	138	134/6	136/4	133/3	143/1	152/3	151/1	144/4	123/7	116/3	115/2	135/7
2 Feed.....	138/3	135/5	128/4	133/5	129/7	140	149	147/2	140/7	119/4	112/2	109/6	132
3 Feed.....	132/3	130/3	123	127/2	122/3	132/2	140/5	139/2	132/6	110/7	102/6	102/2	124/5
RYE—													
(1) <i>Domestic and Export and Producers' Prices</i>													
2 C.W.....	145/3	143/7	146/2	154	162/7	183/6	205/7	228/3	229/1	210/2	209	197/3	184/5
3 C.W.....	140/6	139/5	141/2	149/7	158/1	179/7	201/2	223/7	224/4	205/2	204	192/7	180/1
4 C.W.....	135/2	132/4	136	144/1	152/7	174/1	195/4	215/5	215/5	195/7	195/4	181	172/6
Ergoty.....	125/2	125/1	130	138/1	146/7	168/1	189/4	210/4	209/5	189/7	189/4	175	166/4
Rejected.....	129/2	128/4	132	140/1	148/7	170/1	191/4	212/4	211/5	191/7	191/4	177	168/6
FLAXSEED—													
(1) <i>Domestic and Export and Producers' Prices—</i>													
1 C.W.....	359/3	388	369/1	379/1	402/4	488/4	543/4	534	517/4	462/5	436/6	416/5	441/4
2 C.W.....	354/3	383/1	364/1	372/7	397/4	482/2	539/4	528/3	511/7	457/4	429	411/1	436
3 C.W.....	334/3	363/1	338/5	333/2	361/1	443/7	496/5	474	456/2	390/3	359/5	352/6	392

¹Basis in Store Fort William-Port Arthur or Vancouver.²Basis in Store Fort William-Port Arthur.³For Local Sales and for Spot sales subject to confirmation.⁴Effective June 15, 1951 a 6c. carrying charge was added to all Domestic Sales.

APPENDIX No. 9
REPORT OF THE CHIEF CHEMIST

WINNIPEG, MANITOBA,
December 14, 1951

Board of Grain Commissioners,
Winnipeg, Manitoba.

SIRS,—I have the honour to submit the following report on the Board's Research Laboratory for the year 1951.

All 1951 crops of Western Canadian grain suffered severely from atrocious harvesting weather. Continued rains almost everywhere, followed by early snow in southern and western Alberta and across the northern half of the crop-growing area, caused drastic degrading. Some further combining was completed after the snow fell, even into December, but large amounts of swathed and standing grain must await spring harvesting.

The top grade of each grain is almost negligible this year, and the second grade is generally small; the bulk of the crops enters the third and fourth grades. Percentages of tough and damp grain will exceed previous records.

Spring wheat, considered as a 3 and 4 Northern crop, maintains its reputation. High protein wheat, that might have graded 1 and 2 Northern, was weathered to 3 and 4 Northern levels, so that these grades, with protein contents of about 13.6 per cent, have good baking strength. Flour yields and loaf scores are about average for the grades. Gassing power is high. Durum wheat of fairly good macaroni-making quality is available in No. 3 C.W. Amber Durum, but quality deteriorates rapidly in lower grades. No. 3 C.W. Six-row is the largest of the malting grades of barley, and the qualities of this and small amounts of higher grades are generally satisfactory. Flax also suffered from weathering, but both oil content and iodine value are above average.

In collaboration with the Chief Inspector, the usual assistance was given in preparing tentative Standard and tentative Standard Export Samples, and in collecting information on crop quality for presentation at two meetings of the Committee on Western Grain Standards. The principal degrading factors were immaturity, sprouting and general weathering. In addition, saprophytic moulds growing on outer layers of the kernels were widely prevalent in southern areas. An unusual splitting of the bran on the cheeks of wheat kernels was observed in southern Alberta. A few samples showed considerable percentages of pink kernels associated with immaturity. Special studies of the effects of these types of damage on milling and baking quality were made as soon as fully representative samples could be obtained.

The Laboratory made its services available to the Chief Inspector for testing dried grain. Tests were undertaken as soon as each terminal started drying to ascertain that no damage to quality resulted from improper operation. With the added experience gained last year, all terminals are operating their driers without trouble. Some farm drying has come to our attention, but the volume is too small to cause alarm. The wisdom of attempting to dry grain on the farm may well be questioned. Costs of satisfactory installations and of operation are high, and lack of experience increases the danger of damaging the grain. The supervision given to terminal drying operations cannot be extended to country points.

Two successive wet seasons have given impetus to the study of moisture testing. From the electrical moisture meters known to us, four have been selected as most suitable for grain, namely, Halross, Marconi (T.F.933), Tag-Heppenstall, and Universal. Detailed comparisons of the accuracy of these

four meters have been made for wheat and barley. A study with oats is in progress, and further studies of other grains are projected. Results for wheat and barley show that the Halross meter is the most accurate of the four. A number of additional studies of meters has also been made to estimate field performance and to elucidate sources of error. Several hundred electrical meters are now in use in country and terminal elevators in Canada. The possibility of selecting an electrical meter for use in an official method for moisture content, in place of the Brown-Duvel method, is under joint study by the Laboratory and the Inspection Branch.

During the past year good progress has been made in improving the procedures for studying the quality of grain marketed through various channels. The Laboratory now receives unload samples, taken by automatic samplers at terminal elevators, in place of stab samples taken at primary inspection points. This change provides more representative samples; it also makes possible the collection of additional data on dockage, degrading factors, and moisture, besides clean bushel weight and protein content. Hollerith punch cards have been redesigned to accommodate the additional data. Records are kept for every twentieth, tenth, or fifth car, of each grade, depending on its size. As heretofore, records are also collected for every cargo leaving the Lakehead and seaboard ports.

The new data create possibilities for studies of incidence of individual grading factors and of the practical effect of these on quality. Moreover, a procedure has been devised for studying the effects of soundness on grade qualities independent of protein content and bushel weight. In due season, this procedure should yield more detailed factual support for the contention that Canadian grading is uniform from year to year.

The writer takes this opportunity of expressing appreciation of the co-operation and help given by the Chief Grain Inspector and his staff in facilitating the revised system of collecting samples. The collaboration between the Laboratory and the Inspection Branch continues to be extraordinarily close and happy.

Quality studies of new varieties of cereal grains have been continued in collaboration with the Associate Committee on Grain Research. In spite of the wet Fall and low grades, it has proved possible to proceed with the annual uniform variety trials for bread wheats and with a collaborative trial, involving Canadian, United Kingdom, and United States chemists, of two promising new varieties. But low grades have forced the postponement of a corresponding study of new durum varieties.

Basic research in the bread wheat section, under Dr. I. Hlynka, continues to follow plans formulated about three years ago. The long-term objective is to obtain insight into the physico-chemical structure that gives dough its unique visco-elastic properties. A major line of attack involves quantitative study of the measurable changes that occur in the physical properties and behaviour of dough under specified treatments, and the formulation of testable hypotheses that will explain this behaviour in terms of molecular structure. Use is being made of the marked changes that occur in dough properties when bromate is added, and of differences created by mixing in air, oxygen, and nitrogen. The major investigation deals with rates of relaxation of stress in doughs following manipulation. Long-term relaxation, over 3 or 4 hours, is being studied with the extensograph, and short-term relaxation, over seconds and minutes, with an instrument, called a "relaxometer", designed and constructed in the Laboratory. Chemical studies of the fate of bromate in dough represent a co-ordinated attack on the same problem.

Comparative studies of "glutens" prepared from wheat, barley and rye, and of a corresponding but clay-like preparation from oats, have been continued in the analytical section by Mr. D. K. Cunningham. The preparations are made

by dispersing the protein in formic acid. Attention has been directed to the amounts and qualities of preparations precipitated from the dispersions by various salts and at different hydrogen-ion concentrations. Attempts are being made to correlate the results with studies of the physical properties of the glutens as recorded by the "stretchometer" designed and constructed in the Laboratory some years ago. This research bears on the same problem under study in the bread wheat section.

In the durum wheat section, Dr. G. N. Irvine is investigating lipoxidase activity by quantitative studies of oxygen uptake made with a Warburg apparatus. The enzyme lipoxidase is responsible for destroying desirable yellow pigments during macaroni processing. Methods that differentiate clearly between durum varieties of different macaroni-making quality have already been devised. But adequate hypotheses to explain the kinetics of the reactions are proving more elusive.

Research on malting barley, under Dr. W. O. S. Meredith, deals with gums in barley and malt that are mainly responsible for viscosity of wort and beer, and with enzymes that attack them and thus reduce viscosity. One immediate objective is the preparation of a stable gum free from contamination with enzymes or other adventitious nitrogen components. In the enzyme study, a method of separating the gum enzyme from other enzymes that attack starch has been developed, and studies of the kinetics of enzymatic hydrolysis of the gums are in progress. In addition, work is being done on the design and construction of new laboratory malting equipment permitting direct control of the temperature of the growing malt and of the carbon dioxide content of the malting atmosphere. Rebenching of the barley research laboratory has been completed.

During 1951 the staff published, or have in press, ten scientific papers. Five statements on crop quality and two protein maps were released to the press during the Fall. Four crop bulletins, two on wheat and one apiece on barley and flax, were also widely distributed. More attractive covers were designed for these bulletins, and efforts have been continued to present the information in simple language. The Laboratory is also collaborating with the Commercial Intelligence Service of the Department of Trade and Commerce in preparing a brochure on Canadian wheat and flour. The story is to be told largely with photographs.

Gains and losses in staff show a favourable balance. Dr. C. J. Dempster has returned from leave of absence and is to be congratulated on obtaining the degree of Ph.D. from McGill University. A search for a physicist, to add to the staff of the bread wheat section, proved successful when J. R. Cunningham, M.Sc., University of Saskatchewan, was appointed on June 1. Mr. P. R. Templin resigned from a temporary position to continue postgraduate studies towards an M.Sc. degree at the University of Manitoba. He and Messrs. M. Golubchuk, T. A. Watts, and W. Bushuk, are undertaking research in this Laboratory which is now accredited to the University of Manitoba for postgraduate studies. Messrs. Glenday and Stitt resigned from the sub-professional staff, and they and Mr. Hill, who resigned last year, have been replaced by Messrs. Podolak, Solomon, and Wilson.

A detailed report on the work of the Grain Research Laboratory has been prepared. In accordance with past practice, it is recommended that this report be published in full to put on record data on the quality of Canadian grain crops and progress reports on laboratory investigations.

Respectfully submitted,

J. ANSEL ANDERSON,
Chief Chemist.

APPENDIX No. 10

FORT WILLIAM, Ont.,

November 30, 1951.

The Board of Grain Commissioners,
Winnipeg, Man.

GENTLEMEN:

I beg to submit the following report of the operations of the Canadian Government Elevators for the crop year 1950-51.

ELEVATORS OPERATED

The interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge were operated during the year as public terminal elevators. The elevator at Prince Rupert was licensed as a public terminal but no grain was received into or shipped from the elevator during the crop year. Since October, 1951, there has been a steady movement of wheat to Prince Rupert and present indications are that probably eight cargoes may be shipped through that port during the current year.

ELEVATOR LEASED

The elevator at Port Arthur continues to be operated by McCabe Grain Co. Ltd., under lease for a term of five years from August 1st, 1949.

TARIFF OF CHARGES

The tariff of charges was substantially the same as was in effect the previous year, the only major change being the reduction of the storage charge from one-thirtieth ($1/30$) of one cent to one-forty fifth ($1/45$) of one cent per bushel per day after the first ten days.

VOLUME OF GRAIN HANDLED

There was a decided increase in the amount of grain received as compared with receipts of the previous year, due largely to the movement of low grade wheat into the Moose Jaw and Saskatoon elevators.

Comparative figures for the two years are as follows:

Elevator	1949-50	1950-51	Decrease	Increase
	bus.	bus.	bus.	bus.
Moose Jaw.....	47,441	4,442,285	.....	4,394,844
Saskatoon.....	54,190	4,746,616	.....	4,692,426
Calgary.....	2,480,118	2,256,312	223,806	.....
Edmonton.....	423,129	1,671,705	.....	1,248,576
Lethbridge.....	16,327	78,538	.....	62,211
Prince Rupert.....	.....	.....	.....	.....
	3,021,205	13,195,456	.....	10,174,251

Shipments of grain from all elevators during the year totalled 3,258,139 bushels and stocks in store on July 31, 1951, amounted to 10,059,094 bushels.

In addition to the above a considerable amount of rapeseed was handled at the Moose Jaw and Saskatoon elevators. Receipts at the former were 347,595 pounds and shipments 1,067,100 pounds. Saskatoon receipts were 159,285 pounds, which was in store on July 31, 1951, and since that date receipts have amounted to 2,750,000 pounds.

Since the end of the crop year there has been considerable activity in both receipts and shipments of grain at all the elevators and a large volume of tough and damp grain is being dried.

MAINTENANCE OF BUILDINGS AND EQUIPMENT

The buildings, equipment and railway trackage at all points have been maintained in good operating condition.

At Port Arthur the bagging room and several small offices, which were of timber construction, were replaced with fire resistant materials. The obsolete passenger elevator is being replaced with modern equipment.

The installation of dust control equipment at Calgary has been completed and some electrical equipment in the substation modernized. Six car loading spouts were renewed and roofs of main buildings rehabilitated.

At Edmonton the two high pressure steam boilers serving the grain drying plant were retubed.

The Lethbridge drier and office building heating boilers are being converted from coal burning to gas burning.

Portions of the bracing of the dock piling at Prince Rupert have been renewed and the remainder of the bracing will be renewed during the coming season.

STAFFS

Staffs at all points have been maintained at the minimum of requirements. Substantial increase in temporary and casual help is necessary to take care of additional volume of grain now being handled. Extra shifts have been provided in connection with the drying of tough and damp grain.

Key men for the operation of the Prince Rupert elevator were temporarily transferred from other plants, three from Edmonton and three from Moose Jaw.

Four permanent employees retired during the year, the vacancies thus created being filled by promotion.

FINANCIAL RESULTS OF OPERATIONS

Earnings from all sources during the fiscal year ended March 31, 1951, amounted to \$700,693.31, an increase of \$418,077.39 over the previous year, increases being recorded in practically all revenue items.

Operating expenses were \$565,724.39, an increase of \$64,609.04 over the previous year.

The surplus of revenue over all expenditures was \$134,968.92 compared with a deficit of \$218,499.43 the previous year.

As in former years, no provision was made in the financial statements to cover depreciation of plants and equipment, expenditures for maintenance of which are included in operating costs.

Respectfully submitted,

R. HETHERINGTON,
General Manager.

APPENDIX No. 11

STATEMENT OF REVENUE AND EXPENDITURE FOR
FISCAL YEAR ENDING MARCH 31, 1951

(a) WINNIPEG—

Revenue

	\$	cts.	\$	cts.	\$	cts.
Licence and Bonding Fees.....	29,429	00				
Less Fees Refunded.....	100	00				
			29,329	00		
Registration Fees.....	10,758	44				
Cancellation Fees.....	10,329	06				
			21,087	50		
Appeal Fees.....	1,497	00				
Less Fees Refunded.....	96	00				
			1,401	00		
Inspection Fees.....	309,305	15				
Overtime.....	956	25				
Splits—Cargo.....	260	10				
Samples Sold.....	8,960	69				
Sampling Fees.....	6,008	00				
Express Charges.....	2,278	48				
			327,758	67		
Weighing Fees.....	20,140	52				
Overtime.....	675	20				
Condition Reports.....	225	50				
			21,041	22		
					400,617	39

*Expenditure—**Board and Executive Offices**Salaries—*

Commission and Secretary.....	36,265	31
Secretary's Office.....	25,204	34
Rent.....	6,020	80
Travelling Expenses.....	5,861	26
General Expenses.....	3,828	48
Printing and Stationery.....	2,525	16

79,705 35

Assistant Commissioner's Office

Salaries.....	5,000	00
Rent.....	91	50
Travelling Expenses.....	309	04
General Expenses.....	64	30

5,464 84

Licence and Bonding

Salaries.....	16,862	65
Rent.....	1,643	32
General Expenses.....	550	10
Printing and Stationery.....	1,904	39

20,960 46

Accounts

Salaries.....	11,577	63
General Expenses.....	350	94
Printing and Stationery.....	207	18

12,135 75

Registration

Salaries.....	19,733	00
Rent.....	1,919	80
General Expenses.....	574	62
Printing and Stationery.....	143	88

22,371 30

Grain Research Laboratory

Salaries.....	92,846	09
Rent.....	13,572	00
Travelling Expenses.....	2,981	80
General Expenses.....	17,566	02
Printing and Stationery.....	4,797	49

131,763 40

Grain Appeal Tribunal

Salaries.....	5,080	00
Rent.....	506	60
General Expenses.....	1,386	80
Printing and Stationery.....	61	69

7,035 09

(a) WINNIPEG—Concluded—

Expenditure—Concluded

<i>Grain Standard Committee</i>	\$	cts.	\$	cts.	\$	cts.
Travelling Expenses.....	3,223	96				
General Expenses.....	2,260	00				
					5,483	96
<i>Inspection Branch</i>						
Salaries.....	402,084	78				
Rent.....	21,906	50				
Travelling Expenses.....	902	46				
General Expenses.....	19,589	46				
Printing and Stationery.....	7,957	68			452,440	88
<i>Weighing Branch</i>						
Salaries.....	38,329	03				
Rent.....	1,799	80				
Travelling Expenses.....	16	95				
General Expenses.....	692	69				
Printing and Stationery.....	61	48			40,899	95
						778,260 98

(b) CHURCHILL

Revenue

Inspection Fees.....	22,121	49				
Overtime.....	739	10				
					22,860	59
Weighing Fees.....	11,060	74				
Overtime.....	563	30				
					11,624	04
						34,484 63

*Expenditure**Inspection Branch*

Salaries.....	8,360	66				
Travelling Expenses.....	3,086	50				
General Expenses.....	4	84				
					11,452	00

Weighing Branch

Salaries.....	4,904	34				
Travelling Expenses.....	2,253	65				
General Expenses.....	12	97				
					7,170	96
						18,622 96

(c) KEEWATIN—

Revenue

Inspection Fees.....	4,752	00				
Overtime.....	82	50				
					4,834	50
Weighing Fees.....	5,578	78				
Overtime.....	99	20				
					5,677	98
						10,512 48

Expenditure

Salaries—Inspection Branch.....					4,834	50
Salaries—Weighing Branch.....	5,632	20				
General Expenses—Weighing.....	45	78				
					5,677	98
						10,512 48

(d) SASKATOON—

Revenue

Inspection Fees.....	18,433	06				
Overtime.....	1,173	65				
Samples Sold.....	615	45				
					20,222	16
Weighing Fees.....	9,996	49				
Overtime.....	504	40				
					10,500	89
						30,723 05

*Expenditure**Assistant Commissioner's Office*

Salaries.....	10,315	42				
Travelling Expenses.....	1,795	87				
General Expenses.....	233	97				
Printing and Stationery.....	47	19				
					12,397	45

(d) SASKATOON—Concluded—

Expenditure—Concluded

Inspection Branch

	\$	cts.	\$	cts.	\$	cts.
Salaries.....	25,665	88				
Rent.....		877	00			
General Expenses.....		503	63			
Printing and Stationery.....		116	30			

27,162 81

Weighing Branch

Salaries.....	16,570	40
Travelling Expenses.....	1,686	51
General Expenses.....		12 80

18,269 71

57,829 97

(e) MOOSE JAW—

Revenue

Inspection Fees.....	15,416	37
Overtime.....		523 85
Samples Sold.....		543 99
Sampling Fees.....		14 00

16,498 21

Weighing Fees.....	7,905	53
Overtime.....		716 00

8,621 53

25,119 74

Expenditure

Inspection Branch

Salaries.....	21,445	74
Rent.....		1,125 00
General Expenses.....		758 86
Printing and Stationery.....		108 88

23,438 48

Weighing Branch

Salaries.....	13,614	50
General Expenses.....		20 80

13,635 30

37,073 78

(f) MEDICINE HAT—

Revenue

Inspection Branch

Inspection Fees.....	9,103	18
Overtime.....		10 20
Samples Sold.....		426 81

9,540 19

Weighing Branch

Weighing Fees.....	9,564	00
Overtime.....		46 40

9,610 40

19,150 59

Expenditure

Inspection Branch

Salaries.....	8,416	20
Rent.....		716 00
General Expenses.....		267 00
Printing and Stationery.....		140 59

9,539 79

Weighing Branch

Salaries.....	9,610	40
General Expenses.....		40

9,610 80

19,150 59

(g) LETHBRIDGE—

Revenue

Inspection Fees.....	439	10
Samples Sold.....		75 37

514 47

Weighing Fees.....		113 34
--------------------	--	--------

627 81

Expenditure

Inspection Branch

Salaries.....	5,597	00
General Expenses.....		123 72
Printing and Stationery.....		2 77

5,723 49

Weighing Branch

Salaries.....	3,188	00
General Expenses.....		4 20

3,192 20

8,915 69

(h) CALGARY—

<i>Revenue</i>	\$	cts.	\$	cts.	\$	cts.
Inspection Fees.....	58,883	40				
Samples Sold.....	2,102	03				
Sampling Fees.....	6	00				
Express Charges.....	299	50				
			61,290	93		
Weighing Fees.....	15,478	48				
Overtime.....	2,546	00				
			18,024	48		
Appeal Fees.....	1,212	00				
Less Fees Refunded.....	183	00				
			1,029	00		
					80,344	41

*Expenditure**Assistant Commissioner's Office*

Salaries.....	9,876	00		
Rent.....	828	00		
Travelling Expenses.....	2,447	57		
General Expenses.....	386	94		
Printing and Stationery.....	23	66		
			13,562	17

Inspection Branch

Salaries.....	54,399	28		
Rent.....	3,000	00		
Travelling Expenses.....	85	50		
General Expenses.....	2,548	15		
Printing and Stationery.....	944	02		
			60,776	95

Weighing Branch

Salaries.....	31,577	50		
Rent.....	314	04		
General Expenses.....	273	86		
			32,165	40

Grain Appeal Board

Salaries.....	4,776	00		
Rent.....	420	00		
General Expenses.....	904	20		
Printing and Stationery.....	14	53		
			6,114	73

112,619 25

(i) EDMONTON—

<i>Revenue</i>	\$	cts.	\$	cts.	\$	cts.
Inspection Fees.....	44,363	41				
Overtime.....	28	75				
Samples Sold.....	956	03				
Express Charges.....	178	00				
			45,526	19		
Weighing Fees.....	6,476	54				
Overtime.....	60	80				
			6,537	34		
Appeal Fees.....	624	00				
Less Fees Refunded.....	78	00				
			546	00		
					52,609	53

*Expenditure**Inspection Branch*

Salaries.....	64,142	94		
Rent.....	4,930	00		
Travelling Expenses.....	88	50		
General Expenses.....	2,824	60		
Printing and Stationery.....	541	23		
			72,527	27

Weighing Branch

Salaries.....	14,368	80		
General Expenses.....	226	51		
			14,595	31

Grain Appeal Board

Salaries.....	5,532	00		
Rent.....	675	00		
General Expenses.....	485	96		
Printing and Stationery.....	1	68		
			6,694	64

93,817 22

GRAIN COMMISSION

75

(j) VANCOUVER—

Revenue	\$	cts.	\$	cts.	\$	cts.
Inspection Fees.....	128,118	13				
Overtime.....	2,389	05				
Splits—Cargo.....		90				
Samples Sold.....	6,403	29				
			136,911	37		
Weighing Fees.....	106,538	12				
Overtime.....	3,265	95				
Condition Reports.....		50				
			109,804	57		
Registration Fees.....	2,405	09				
Cancellation Fees.....	2,504	14				
			4,909	23		
					251,625	17

Expenditure

Inspection Branch

Salaries.....	103,612	00		
Rent.....	6,339	00		
General Expenses.....	3,303	71		
Printing and Stationery.....	957	36		
			114,212	07

Weighing Branch

Salaries.....	108,624	65		
Rent.....	2,439	00		
General Expenses.....	1,145	37		
Printing and Stationery.....	990	20		
			113,199	22

Registration Branch

Salaries.....	5,922	01		
Rent.....	1,632	00		
General Expenses.....	208	76		
Printing and Stationery.....	6	37	7,769	14
				235,180 43

(k) FORT WILLIAM—

Revenue

Inspection Fees.....	507,900	79		
Overtime.....	7,580	30		
Splits—Cargo.....		4 00		
Samples Sold.....	13,908	73		
			529,393	82
Weighing Fees.....	399,537	45		
Overtime.....	6,148	10		
Jury Fees.....	6	00		
			405,691	55
				935,085 37

Expenditure

Assistant Commissioner's Office

Salaries.....	8,999	00		
Rent.....		624 00		
General Expenses.....	206	89		
			9,829	89

Inspection Branch

Salaries.....	487,701	03		
Rent.....	14,178	72		
Travelling Expenses.....	6,269	91		
General Expenses.....	11,066	01		
Printing and Stationery.....	5,081	85		
			524,297	52

Weighing Branch

Salaries.....	352,302	21		
Rent.....	2,908	32		
Travelling Expenses.....	16,771	04		
General Expenses.....	3,861	24		
Printing and Stationery.....	2,566	55		
			378,409	36

Statistical Branch

Salaries.....	51,615	99		
Rent.....	4,944	00		
Travelling Expenses.....		819 96		
General Expenses.....	2,089	52		
Printing and Stationery.....	4,319	72		
			63,789	19
				976,325 96

(l) TORONTO—

<i>Revenue</i>	\$	cts.	\$	cts.	\$	cts.
Inspection Fees.....	4,167	10				
Overtime.....		48 75				
Splits—Cargo.....		4 40				
Samples Sold.....		90 50				
Sampling Fees.....		69 00				
				4,379		75
					4,379	75

*Expenditure**Inspection Branch*

Salaries.....	6,704	70				
Rent.....	1,086	00				
Travelling Expenses.....		339 44				
General Expenses.....		548 90				
Printing and Stationery.....		53 38				
				8,732		42
					8,732	42

(m) MONTREAL—

<i>Revenue</i>	\$	cts.	\$	cts.	\$	cts.
Inspection Fees.....	2,697	34				
Overtime.....		535 45				
Splits—Cargo.....		681 30				
Samples Sold.....		339 26				
Sampling Fees.....		8,484 18				
				12,737		53
Registration Fees.....	3,233	14				
Cancellation Fees.....	3,344	25				
				6,577		39
					19,314	92

*Expenditure**Inspection Branch*

Salaries.....	54,769	63				
Rent.....	3,348	00				
Travelling Expenses.....	4,688	39				
General Expenses.....	1,462	19				
Printing and Stationery.....		361 56				
				64,629		77

Weighing Branch

Salaries.....	3,268	00				
Rent.....	723	96				
Travelling Expenses.....		52 60				
General Expenses.....		219 52				
Printing and Stationery.....		189 37				
				4,453		45

Registration

Salaries.....	7,991	59				
Rent.....	828	00				
General Expenses.....	635	14				
Printing and Stationery.....	228	07				
				9,682		80
					78,766	02

(n) CHATHAM—

<i>Revenue</i>	\$	cts.	\$	cts.	\$	cts.
Inspection Fees.....	14,739	33				
Overtime.....		188 00				
Samples Sold.....		496 43				
Sampling Fees.....		18,339 33				
				33,763		09
					33,763	09

Expenditure

Salaries.....	23,662	31				
Rent.....	1,140	00				
Travelling Expenses.....	11,907	45				
General Expenses.....	1,203	33				
Printing and Stationery.....		294 72				
				38,207		81
					38,207	81

SUMMARY OF OPERATION BY BRANCHES

REVENUE

—	Inspection		Weighing		Appeal Boards		Registration		License and Bonding		Statistical		Accounting		Research Laboratory		Grain Standards		Administration		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
Fees.....	1,140	439 85																			1,797,708 96	
Overtime.....	14,255	85	592,389	99	2,976	00	32,574	12	29,329	00											28,881 20	
Sampling.....	32,920	51	14,625	35																	32,920 51	
Express Charges.....	2,755	98																			2,755 98	
Cargo Splits.....	950	70																			2,950 70	
Samples Sold.....	34,908	58																			34,908 58	
Condition Reports.....			226	00																	226 00	
Jury Fees.....			6	00																	6 00	
Total.....	1,226,231	47	607,247	34	2,976	00	32,574	12	29,329	00											1,898,357 93	

EXPENDITURE

	Salaries		Rents		Travel		Expenses		Printing and Stationery		Research Laboratory		Grain Standards		Administration		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
Salaries.....	1,271,396	65	601,990	03	15,388	00	33,646	60	16,862	65	51,615	99	11,577	63	92,846	09	2,190,983	71
Rents.....	58,646	22	8,185	12	1,601	60	4,379	80	1,643	32	4,944	00			13,572	00	100,586	36
Travel.....	27,368	15	20,780	75							819	96			3,223	96	65,588	36
Expenses.....	44,004	40	6,516	14	2,776	96	1,418	52	550,10		2,089	52	350	94	17,566	02	82,258	18
Printing and Stationery.....	16,560	34	3,807	60	77	90	378	32	1,904	39	4,319	72	207	18	4,797	49	34,648	95
Total.....	1,417,975	76	641,279	64	19,844	46	39,823	24	20,960	46	63,789	19	12,135	75	131,763	40	2,474,015	56

Total Revenue.....	1,898,357 93
Total Expenditure.....	2,474,015 56
Net Deficit.....	575,657 63

GRAIN COMMISSION

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EXPENDITURE

Winnipeg.....	452,440 88	40,899 95	7,035 09	22,371 30	20,960 46	12,135 75	131,763 40	5,483 96	85,170 19	778,260 98
Churchill.....	11,452 00	7,170 96	.....	.....	.....	.....	.....	.....	.....	.....	18,622 96
Keewatin.....	4,834 50	5,677 98	.....	.....	.....	.....	.....	.....	.....	.....	10,512 48
Saskatoon.....	27,162 81	18,269 71	.....	.....	.....	.....	.....	.....	.....	12,397 45	57,829 97
Moose Jaw.....	23,438 48	13,635 30	.....	.....	.....	.....	.....	.....	.....	.....	37,073 78
Medicine Hat.....	9,539 79	9,610 80	.....	.....	.....	.....	.....	.....	.....	.....	19,150 59
Lethbridge.....	5,723 49	3,192 20	.....	.....	.....	.....	.....	.....	.....	.....	8,915 69
Calgary.....	60,776 95	32,165 40	6,114 73	.....	.....	.....	.....	.....	.....	13,562 17	112,619 25
Edmonton.....	72,527 27	14,595 31	6,694 64	.....	.....	.....	.....	.....	.....	.....	93,817 22
Vancouver.....	114,212 07	113,199 22	.....	7,769 14	.....	.....	.....	.....	.....	.....	235,180 43
Fort William.....	524,297 52	378,409 36	.....	.....	.....	63,789 19	.....	.....	.....	9,829 89	976,325 96
Toronto.....	8,732 42	.....	.....	.....	.....	.....	.....	.....	.....	.....	8,732 42
Montreal.....	64,629,77	4,453 45	.....	9,682 80	.....	.....	.....	.....	.....	.....	78,766 02
Chatham.....	38,207 81	.....	.....	.....	.....	.....	.....	.....	.....	.....	38,207 81
Total.....	1,417,975 76	641,279 64	19,844 46	39,823 24	20,960 46	63,789 19	12,135 75	131,763 40	5,483 96	120,959 70	2,474,015 56

Total Revenue..... 1,898,357 93

Total Expenditure..... 2,474,015 56

Net Deficit..... 575,657 63

APPENDIX No. 12

BOARD OF GRAIN COMMISSIONERS FOR CANADA

Regulations in force December 31, 1951

Regulation No.	Subject
1	Registration and Cancellation of Terminal Elevator Warehouse Receipts.
2	Registration and Cancellation of Eastern Warehouse Receipts and Transfer Receipts.
3	Construction of Elevators.
4	Cleaning Grain and Bins, Terminal Elevators.
5	Off Grades for Western Grain.
6	Off Grades for Eastern Grain.
7	Grades of Screenings.
8	Inspection of Samples Taken other than at an Inspection Point.
9	Appeals from Inspection Officers to Grain Appeal Tribunals.
10	Delivery of Grain to Ocean Vessels at Montreal, Quebec.
11	Delivery of Grain to Ocean Vessels at West Saint John, N.B.
12	Delivery of Grain to Ocean Vessels at East Saint John, N.B.
13	Delivery of Grain to Ocean Vessels at Halifax, N.S.
14	Enforcement of Lien by Sale of Grain.
15	Drying of Grain.
16	Fees.
17	Records, Reports and Returns.
18	Procedure, Country Elevators.
19	Receipt for Grain Delivered to Private Country Elevators and Mill Elevators.
20	Maximum Tariff of Charges, Eastern Elevators.
21	Maximum Tariff of Charges and Shrinkage Allowance, Country Elevators.
22	Maximum Tariff of Charges, Terminal Elevators.
23	Applications for Licences and Terms and Conditions under which Licences are Issued.
24	Receipt for Storage in Transit for Reshipment out of Canada of Grain Grown outside Canada.

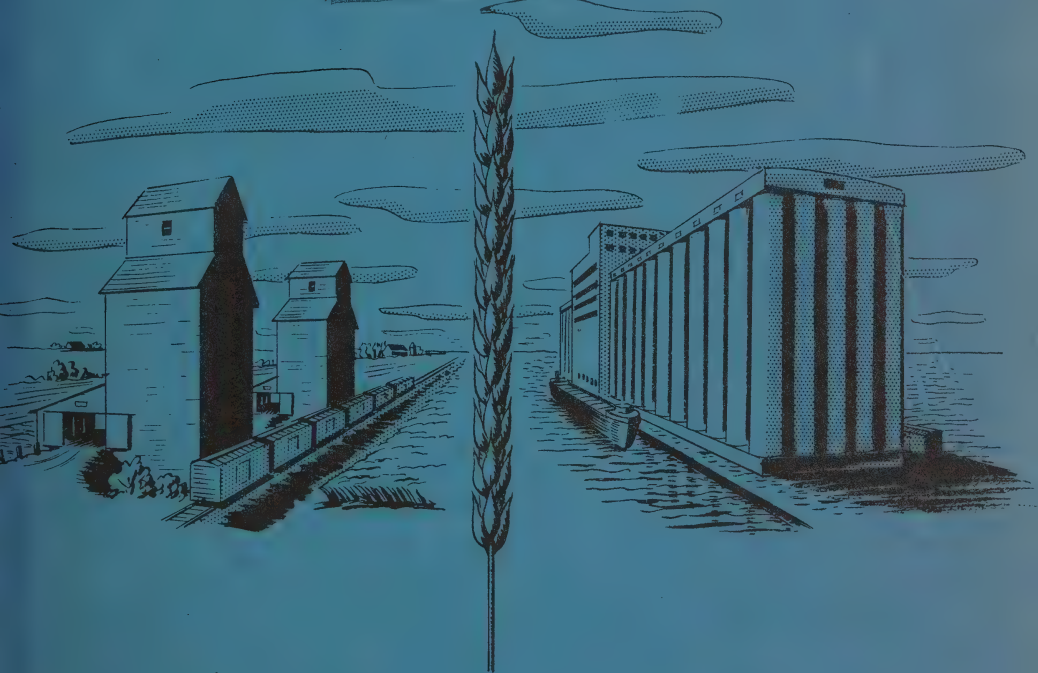
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The Board of Grain Commissioners FOR CANADA

DEPARTMENT OF TRADE AND COMMERCE

Rt. Hon. C. D. Howe, M.P., Minister

Wm. Frederick Bull, Deputy Minister



Report for 1952



Board of
Grain Commissioners
for Canada

ANNUAL REPORT
for 1952

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DEPARTMENT OF TRADE AND COMMERCE
OTTAWA, CANADA

Minister: Rt. Hon. C. D. Howe, M.P.

Deputy Minister: Wm. Frederick Bull

EDMOND CLOUTIER, C.M.G., O.A., D.S.P.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1953

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WINNIPEG, Manitoba,
January 26, 1953.

The Right Honourable C. D. HOWE, M.P.,
Minister of Trade and Commerce,
Ottawa, Canada.

SIR,—We beg to submit herewith Annual Report of the Board of Grain Commissioners for Canada for the year 1952 in compliance with the provisions of Section 23 of The Canada Grain Act.

This report records information and statistics relating to grain handlings for the crop year August 1, 1951 to July 31, 1952, expenditures and revenue for the fiscal year April 1, 1951 to March 31, 1952, and summarizes the major activities of the Board and its branches for the 1952 calendar year.

Summaries are given in the first and main section, and additional information in greater detail, presented by various branches and supported by tables of data, is presented in appendices A to L to this section.

General

The 1951-52 crop year began with a substantial carry-over at July 31, 1951, to which has been added a near-record production of the major cereal crops seriously damaged by adverse weather conditions. Poor grades resulted and there was a large proportion of tough and damp grain.

By the end of the crop year July 31, 1952, 737.4 million bushels of wheat, barley, oats, rye and flax were marketed in the prairie provinces as against 564.6 million bushels the previous year. Grain inspection data show that 47.5% of all grains entered the tough and damp grades. Of the total quantity marketed, about 170 million bushels had to be dried artificially or by natural means, and considerably over 200 million bushels of all grain which had wintered under snow, had to be recovered by spring threshing.

On top of the difficulties arising from the handling of the large low grade grain crop during 1951-52, a record 1952 harvest under ideal conditions, produced about 1.5 billion bushels of top grade grains, of which it is estimated that about one billion would be available for marketing in the 1952-53 crop year.

The following table gives data on seeded acreage and crop production for the 1951-52 and 1952-53 crop years, and compares them with the average for the previous five years:

	Acreage			Production		
	Average 1947-51	1951	1952	Average 1947-51	1951	1952
	million acres			million bushels		
Wheat.....	25.6	25.3	26.0	422.8	552.7	687.9
Oats.....	11.4	11.9	11.1	372.7	488.2	466.8
Barley.....	6.9	7.8	8.5	166.7	245.2	291.3
Rye.....	1.3	1.1	1.3	15.9	17.6	24.6
Flaxseed.....	1.1	1.2	1.2	9.4	9.9	13.0
	46.3	47.3	48.1	987.5	1,313.6	1,483.6

The chief characteristics of the current year's Western Canadian marketed crop may be seen by the grade data. Primary inspections showed the following grades for wheat inspected during the first five months (August 1 to December 31) of the 1952-53 crop year, with final figures for the previous year shown in brackets: One Hard .04% (nil); One Northern 7.4% (.4%); Two Northern 26% (4.2%); Three Northern 19.7% (16.6%); Damp Wheat .08% (13.3%); and Tough Wheat 12.2% (35.2%).

Marketing for the first five months of the new crop year of the five principal grains was 394.5 million bushels as against 335.3 million bushels for the same period of the previous crop year.

Lakehead shipments for the 1952 season of navigation from April 3 to December 18 amounted to 450.8 million bushels, as compared with 317.2 million bushels for the 1951 season of navigation. Exports of the five principal grains during the 1951-52 crop year totalled 453.9 million bushels. The grain movement picture for the 1951-52 crop year is dealt with in greater detail in the Chief Statistician's report, Appendix H.

Overages—Country Elevators

Country elevator annual returns covering operations during the 1951-52 crop year submitted to the Board in accordance with the provisions of Section 10 of the Board's Regulation No. 17, have been examined and the results have been tabulated. Owing to the very congested storage conditions at country points resulting from the large crop, many elevators had to report incomplete weighovers and the results of their operations were estimated. A breakdown of the country elevator returns is given in the following table which shows the number of elevators reporting overages or shortages for the three crop years 1949-50, 1950-51 and 1951-52:

Elevators Reporting	1951-52	1950-51	1949-50
Shortages.....	569	897	1,797
Neither overages nor shortages.....	16	56	120*
Not completely weighed-over.....	3,016	1,974	—
Overages of less than .25%.....	828	1,475	2,440
Overages of .25% to .50%.....	455	587	456
Overages over .50%.....	163	78	123
Totals.....	5,047	5,067	4,936

* Includes some elevators not completely weighed-over.

In connection with excessive overages on operations during the previous year, the Board held five public hearings during 1952 at Saskatoon, Regina, Edmonton, Winnipeg and Brandon, and called ten country elevator agents to appear before the Board to show cause why the Board of Grain Commissioners should not refuse to licence any country elevator at which the persons concerned act as agents of the licensee.

Inspection of Grain

The major problem in grading the 1951 crop was the high percentage of tough and damp grain. Although early indications were that the three prairie provinces,

with the exception of a small area in Southern Saskatchewan, would harvest good crops of all cereal grains, continued rains and some snow caused grains to sprout and develop mildew, particularly in the Southern areas of the prairies. Inclement weather continued and gave farmers no alternative other than to thresh regardless of condition of the grain. As a result, almost half of the 1951 crop graded tough or damp.

The Board's Inspection Branch had to supervise grain drying operations at all points, and additional teams were also posted at Duluth-Superior and Buffalo to handle grain drying there.

The Board's Research Laboratory collaborated with the Inspection Branch in checking on the quality of dried wheat to ensure against damage to the milling and baking quality from improper drying.

Storage of Foreign Grain for Re-shipment from Canada

Under authority of Section 15 (*cc*) of The Canada Grain Act and Board's Regulation No. 24, the Board continued to restrict the entry of foreign grain into Canada for re-export, to give priority to the storage of Canadian grain.

During the 1952 calendar year, seven permits were issued to two terminal elevators at the Pacific Coast, and 2,522,868 bushels of foreign grain entered Canada under these permits. At December 31, 1952, only 146,789 bushels remained in store.

Weighing of Grain

In addition to the regular weighing service, scale inspection work and weigh-overs of grain stocks in terminal and Eastern elevators, the Board's weighing officials investigated complaints on outturn shortages in Lakehead cargo shipments with a view to determining liability for excessive outturn shortages.

During the 1952 navigation season, some improvement over last year and over the five-year average has been shown in the loss per thousand bushels of grain shipped from Lakehead ports and unloaded at Eastern elevators. Managers of certain Eastern elevators with somewhat poorer than average outturn records have been interviewed with a view to effecting improvements in this connection.

Assistant Commissioners

The Assistant Commissioners for the three prairie provinces investigated complaints submitted by producers and others concerning matters which come under the jurisdiction of the Board. During the 1952 calendar year, a total of 129 cases were investigated as against 118 for the previous year. Of the total number, 15 originated in Manitoba, 107 in Saskatchewan and 7 in Alberta. In addition, a large number of inquiries respecting operation of the car order book were received and dealt with. These originated chiefly in Saskatchewan.

The Assistant Commissioners make regular inspections of country elevators and during 1952, 2,727 elevators were inspected; 437 were in Manitoba, 776 in Saskatchewan and 1,514 in Alberta. Storage facilities such as hangars and rinks and other buildings covered by applications for supplementary storage or "off-site" licences made under Order in Council P.C. 5122 were inspected by these officials before issue of licences.

Country elevator agents who showed excessive overages from their operations were interviewed and informed of the action which would be taken by the Board in cases of continued accumulation of excessive overages by them.

Inspections and interviews were also carried out in connection with problems such as insect infestation and applications for out-of-turn cars under Section 68(2) of The Canada Grain Act. Other contacts with the public were made as occasion arose, to deal with matters concerning The Canada Grain Act and the Board's Regulations.

Car Order Book

Car order book operation was suspended on December 4, 1951, by order of the Transport Controller under the Emergency Powers Act, to speed up loading at country points of Canadian Wheat Board preference orders and shipments of damp grain. This suspension was lifted on July 15, 1952.

Complaints of irregularities in the use of the car order book received by the Board were investigated by Assistant Commissioners and any necessary corrective measures taken. A number of fines were collected for breaches of the Act or of the Board's Regulations.

Supplementary Storage

In order to relieve the grain storage and transportation situation, Order in Council P.C. 5122 of September 26, 1951, authorized the Board to permit the use by country elevator licensees, of suitable supplementary "off-site" storage space for warehousing of wheat under regulations of the Board. With the 1952 record harvest and storage problems arising from it, authority for supplementary storage was continued by Order in Council P.C. 4116 of September 24, 1952.

The Board continued to issue licences for warehouses meeting certain structural specifications which were inspected and approved by Assistant Commissioners. At December 31, 1952, there were 58 buildings licensed for supplementary storage with a total capacity of 2,006,850 bushels.

Shipping Permit No. 100

Special shipping authority designated as Permit No. 100 which was put into effect by the Board on January 22, 1951, to facilitate shipment of damp grain and subsequently suspended, was again introduced on November 22, 1951, to ensure priority of shipment of damp grain to terminals and other elevators for drying.

During the period, November 28, 1951, to the end of the crop year July 31, 1952, there were 17,827 carlots of damp grain shipped under Permit No. 100. Transportation agencies and elevator companies co-operated to the full during 1951-52 in handling the tough and damp crop and losses through spoilage were negligible.

Grain Drying

Record quantities of grain were dried under supervision of the Board's officials during the 1951-52 crop year. A total of 122.5 million bushels of tough and damp wheat, oats, barley, rye and flax were dried artificially, and in addition, 46.3 million bushels were dried by natural means. Following are the amounts of the five principal grains dried at different points:

Point	Artificial	Natural
	millions of bushels	
Lakehead.....	70.7	28.5
Pacific.....	26.4	16.2
Interior.....	9.5	1.5
Duluth-Superior and Buffalo.....	14.4	nil
Others.....	1.5	0.1

In addition to the above, extensive drying operations were carried out on farms and at country points. In all operations, the Inspection Branch and the Board's Research Laboratory collaborated in supervising and controlling the operations to prevent possible damage to quality through improper drying. More detailed data on drying are presented in Table H-16 of the Chief Statistician's Report, Appendix H.

Elevator Charges

Representations were made to the Board by members of the grain trade at public meetings held in Toronto, Vancouver and Winnipeg in June and July, 1952, to consider maximum grain handling tariffs for the 1952-53 crop year.

Submissions were reviewed by the Board and effective August 1, 1952, some changes in the maximum tariffs were made. Increase for elevation to trucks was granted Eastern elevators to establish a uniform ceiling of $\frac{3}{4}$ c. per bushel for Georgian Bay and St. Lawrence ports. Allowance for invisible loss and shrinkage on grain trucked to country and terminal elevators was reduced from three-quarters of one per cent ($\frac{3}{4}\%$) to one-half per cent ($\frac{1}{2}\%$) on tough grades, and from one per cent (1%) to one-half per cent ($\frac{1}{2}\%$) on damp grain. Maximum tariff schedules for Churchill were brought into line with those for Lakehead and Winnipeg terminals.

Effective October 1, 1952, a separate tariff schedule was re-established for Churchill. Storage rates were adjusted to conform with seasonal shipping conditions of the port.

A maximum storage rate for Churchill of one-thirtieth of one cent ($\frac{1}{30}$ ¢.) per bushel per day after the first ten days from August 1 to October 1 of the crop year became effective; one-fiftieth of one cent ($\frac{1}{50}$ ¢.) per bushel per day was fixed as the storage rate for the remainder of the crop year from October 9 to July 31. However, on grain in store at Churchill on October 9 of any year or taken into store between October 9 and November 30 of the same year, the storage charge up to August 31 of the following year was fixed at three cents (3¢.) per bushel.

Regulations of the Board

On July 22, 1952, the Board amended effective August 1, 1952, the Regulations made under authority of The Canada Grain Act by the following re-enactment:

Regulation No. 16—Fees

No. 18—Procedure, Country Elevators

No. 20—Maximum Tariff of Charges—Eastern Elevators

No. 21—Maximum Tariff of Charges and Shrinkage Allowances—
Country Elevators

No. 22—Maximum Tariff of Charges—Terminal Elevators

Regulation No. 18 was further amended effective August 1, 1952, by specifying an alternative sieve required for use by country elevator agents in determining dockage in flaxseed.

An amendment to Regulation No. 1 was put into effect October 15, 1952, in order to facilitate the handling of grain documents. This amendment extended the time limit for the submission of warehouse receipts to the Registrar for cancellation after shipment of grain.

As noted in the section above, the Board adjusted Regulation No. 22 effective October 1, 1952, to provide a separate maximum tariff schedule for Churchill graduated according to the navigation season.

Amendments to Regulations Nos. 11, 12 and 13 effective October 31, 1952, extended the privilege granted to Atlantic elevators to ship grain in store when required for immediate delivery to ocean steamers against orders for grain in transit from the Lakehead. These amendments were introduced to effect the maximum discharge of grain at Atlantic seaboard during the winter months.

Lake Freight Rates

No changes were made during 1952 in the maximum rates for carrying grain by lake and river navigation. The maximum rates authorized by the Board's Order No. 19 of February 5, 1951, remained in effect during 1952.

Audit of Stocks—Terminal and Eastern Elevators

In accordance with the provisions of Sections 138 and 138A of The Canada Grain Act, 38 terminals and 19 Eastern elevators were weighed over during the 1951-52 crop year. Under authority of Order in Council P.C. 5122 of September 26, 1951, the Board deferred weighovers of ten terminals and seven Eastern elevators, as weighovers of terminals with large stocks in store would have unduly slowed down grain movement.

At two terminal elevators at the Lakehead, weighovers disclosed excessive overages due the Crown in the value of \$167.17 which amount was received by the Board.

Canadian Government Elevators

The volume of grain handled by the licensed public terminal elevators operated by the Board during 1951-52 crop year showed an increase of 60 per cent over the previous year. This was due to a very large extent, to the operation of the Prince Rupert Elevator. Grain receipts at all elevators totalled 21 million bushels.

Approximately 11 million bushels of grain were dried at interior terminals and about one million at Prince Rupert.

The Port Arthur Elevator continues to be operated by the McCabe Grain Company Limited under lease which expires July 31, 1954.

The Canadian Government Elevators showed a surplus of revenue over operating expenditure in the amount of \$815,337.88 for the fiscal year ended March 31, 1952, compared with a surplus of \$134,968.92 for the previous year.

More detailed information respecting the operation of the Canadian Government Elevators may be found in Appendix J to this report.

Committees on Grain Standards

The Committees on Grain Standards for the crop year 1952-53 were constituted by the Board in accordance with the provisions of Section 25 of The Canada Grain Act. List of personnel of the Committees may be found in Appendix B to this report.

The Western Committee was convened in Winnipeg on October 3 and 31, 1952, and the Eastern Committee met in Toronto on August 15 and November 14, 1952, to select and settle standard samples in accordance with Sections 27 and 29 of The Canada Grain Act.

Wheat Bonus

Wheat bonus certificates in the amount of seven dollars and sixty-five cents (\$7.65) were redeemed during 1952, and certificates outstanding as at December 31, 1952, amounted to \$7,738.18.

Prairie Farm Assistance Act

The Board continued to collect the one per cent levy on the purchase price of grain marketed in the three prairie provinces. Collections during the 1951-52 crop year totalled slightly less than nine million dollars. Since August 1, 1939, the date on which this assistance program was first introduced, to July 31, 1952, total moneys collected by the Board amounted to 64.3 million dollars. Further data in this connection may be found in Appendix D, Tables D-2 and D-3.

Personnel and Organization

There have been a number of changes among senior staff in the course of re-organization during 1952.

At Eastern Inspection offices, Mr. H. J. K. Schofield, Grain Inspector, was transferred from Chatham to Toronto to replace Mr. E. H. Alexander, who took charge of the Chatham Inspection office on the transfer to Winnipeg of Mr. Q. C. Moffat, previously in charge at Chatham.

Mr. A. E. Jacobson, previously Superintendent of the Canadian Government Elevator at Moose Jaw, has been appointed Assistant to the General Manager, and has taken up his duties in this capacity at Winnipeg.

The Board have arranged for suitable accommodation in the Grain Exchange Building at Winnipeg, with a view to transferring the offices of the Statistics Branch and the Head Office of the Canadian Government Elevators from Fort William to Winnipeg. This plan is made to effect a better co-ordination of work of the various departments by organizing and consolidating the different branches in one central location. There now remains only the Chief Weighmaster's headquarters, which is not situated in Winnipeg with the other branches.

Transport Controller

Commissioner R. W. Milner who was appointed Transport Controller on August 29, 1951, under Order in Council P.C. 4558 has continued to serve in this position with the Department of Transport during 1952, on a loan basis. Assistant Commissioner John Rayner has continued to act as Winnipeg Representative of the Transport Controller in addition to his regular duties.

Expenditure and Revenue

Total expenditure covering operations of the Board for the fiscal year 1951-52, exclusive of the Canadian Government Elevators, amounted to \$2,850,717.97 compared with \$2,474,015.56 for the previous fiscal year. This represents an increase of 15 per cent resulting chiefly from much heavier grain handlings and increased salary rates.

There were very substantial increases in revenue collected by the Board in 1951-52. Revenue totalled \$2,958,287.07 which was 56 per cent more than the collections of the previous year recorded at \$1,898,357.93. A summary of the Board's Revenue and Expenditure for 1951-52 fiscal year appears in Appendix K.

Expenditures for the nine months of 1952-53 fiscal year to December 31 totalled \$2,517,499.32 as against \$2,047,574.70 for a comparable period during the previous fiscal year. Revenue for the same period amounted to \$2,480,101.11 as compared to \$2,438,560.91 for the previous year.

Respectfully submitted,

D. G. McKENZIE,
Chief Commissioner.

J. VALLANCE,
Commissioner.

APPENDIX A

Report of the Secretary

WINNIPEG, Manitoba,
January 18, 1953.

Board of Grain Commissioners,
Winnipeg, Manitoba.

SIRS,—

I have the honour to submit the following report summarizing some of the chief functions carried out by the Executive Offices of the Board during 1952.

The report is presented under six headings; (a) Complaints, (b) Prosecutions, (c) Defaults, (d) Cars out-of-turn, (e) Receipt of wheat into Country Elevators from railway cars, (f) Grain Loading Platforms, and (g) Results of Annual Weighovers of Terminal and Eastern Elevators.

Information on licences issued, and collections of the one per centum levy under the Prairie Farm Assistance Act, which were previously reported in this section, may be found in the Report of the Licence and Bonding Branch, Appendix "D".

Results of annual weighovers at private, public, semi-public terminals, and at Eastern Elevators are given in Tables A-1 to A-6 of this Appendix.

Yours very truly,

A. T. CALDER,
Secretary.

(a) Complaints

Complaints dealt with by the Board fall into three classes: those relating to grain handling at country elevators, miscellaneous complaints in connection with grain handling and shipment to Eastern Canada, and those concerning quality or weight on export shipments. In addition, many complaints were investigated and adjustments effected in connection with irregularities in car order book procedure at country shipping points.

Country Complaints

During the year ended December, 1952, the Board investigated 141 country complaints as against 121 in 1951. They dealt with handling of grain at country elevators, shipment to terminals and other operations of licensees under The Canada Grain Act. There were 15 from Manitoba, 107 from Saskatchewan, 7 from Alberta and 12 carried over from the previous year.

Disposition was as follows:

No grounds for complaint.....	33	
Settlement effected.....	50	
Outside jurisdiction of Board.....	4	
Licensee fined.....	14	
Licensee warned.....	14	
Settlement ordered.....	1	
Complaint withdrawn.....	2	
Not yet disposed of.....	23	
	<hr/>	141

Miscellaneous Complaints

In 1952, the Board received and dealt with 21 complaints in respect to handling of grain at terminal elevators and shipment to Eastern Canada; in addition there were three unsettled complaints from 1951. This compares with 56 complaints handled during the previous year.

They were disposed of as follows:

	General	Shortage	
No evidence.....	—	14	
Settlement effected.....	1	5	
Not yet disposed of.....	—	4	
	<hr/>	<hr/>	24

Export Shipments

Fifteen (15) complaints in respect to overseas shipments were received during the year, and together with one carried over from 1951, were disposed of as follows:

	Quality	Shortage	
No evidence.....	—	7	
No grounds for complaint.....	4	—	
Settlement effected.....	—	2	
Not yet disposed of.....	—	3	
	<hr/>	<hr/>	16

(b) Prosecutions

Thirteen penalties for breaches of The Canada Grain Act, Board's Regulations, and Orders of the Board amounting to \$1,300.00 were levied and collected.

Number of Penalties	Contravention	Amount
1	Section 125, The Canada Grain Act.....	\$ 500.00
1	Section 72, The Canada Grain Act.....	50.00
10	Board Regulation No. 18.....	500.00
1	Board Order of September 6, 1952.....	250.00

(c) Defaults

There were no defaults by licensees during 1952 and no action was necessary in this connection.

(d) Cars Out of Turn

During the 1952 calendar year, 702 out of turn cars were authorized by the Board under the provisions of Section 68 (2) of The Canada Grain Act for shipment of grain from country elevators as shown below. Figures for the previous year are given for comparison purposes.

Purpose	1951	1952
Grain out of condition.....	106	410
Elevators in danger of collapse.....	100	267
Elevators in danger of being flooded.....	53	—
Seed grain.....	5	3
Others.....	—	22
Total.....	264	702

(e) Receipt of Wheat into Country Elevators from Railway Cars

Under provisions of Section 107 (a) of The Canada Grain Act, the Board, during 1952, authorized receipt of wheat from railway cars into country elevators in a total of 911 carlots.

(f) Grain Loading Platforms

During the year 1952, no applications for the building of grain-loading platforms or the enlargement of existing ones were made to the Board. Grain-loading platforms in Western Canada as at December 1, 1952, were as follows:

Province	Number of Platforms	Car Capacity
Manitoba.....	558	1,268
Saskatchewan.....	1,238	2,585
Alberta.....	721	1,428
British Columbia.....	35	83
Ontario.....	21	43
Total as at December 1, 1952.....	2,573	5,407

(g) Results of Annual Weigh-Overs

The following tables (A-1 to A-6), record overages or shortages, and excess or deficiency calculated in accordance with Section 138 of The Canada Grain Act, at Public Terminal Elevators; the excesses or deficiencies at Semi-Public Terminal Elevators; results of annual weigh-over of Private Terminal Elevators, and the summary of results of calculations, in accordance with Section 138 (A) of The Canada Grain Act, of overages and shortages in Western Canadian and foreign grain as revealed in the annual weigh-over of grain stocks in store in Eastern elevators.

Table A-1.—Overages and Shortages Disclosed by Weigh-overs of

Date of Weigh-over	Licensee	Wheat		Oats		Mixed Feed Oats	
		Over-age	Short-age	Over-age	Short-age	Over-age	Short-age
1952	CANADIAN GOVERNMENT ELEVATORS	bu.	bu.	bu.	bu.	bu.	bu.
June 25-July 2..	Calgary.....	—	1,948-35	—	474-24	—	—
July 7-10.....	Edmonton.....	1,546-35	—	531-31	—	—	—
July 3-4.....	Lethbridge.....	82-40	—	—	—	—	—
July 14-25.....	Moose Jaw.....	—	17,785-10	—	—	—	—
July 28-Aug. 15.	Saskatoon.....	—	30,851-50	85-10	—	1,483-28	—
June 30.....	Prince Rupert.....	2,365-00	—	—	—	—	—
	Totals.....	3,994-15	50,585-35	617-07	474-24	1,483-28	—
	Net Totals—						
	Overages.....	—	—	142-17	—	1,483-28	—
	Shortages.....	—	46,591-20	—	—	—	—

¹ Includes Sample Grain.

Table A-2.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by

Date of Weigh-over	Licensee	Excess		
		1 Hard	1 Northern	2 Northern
1952		bu.	bu.	bu.
	CANADIAN GOVERNMENT ELEVATORS			
June 25-July 2.....	Calgary.....	—	—	—
July 7-10.....	Edmonton.....	—	—	—
July 3-4.....	Lethbridge.....	—	—	—
July 14-25.....	Moose Jaw.....	—	—	—
July 28-Aug 15.....	Saskatoon.....	—	—	—
June 30.....	Prince Rupert.....	—	—	—

Grain Stored in PUBLIC TERMINAL Elevators, Crop Year 1951-52

Barley		Rye		Flaxseed		Corn		United States Corn		Mixed Grain ¹	
Over- age	Short- age	Over- age	Short- age	Over- age	Short- age	Over- age	Short- age	Over- age	Short- age	Over- age	Short- age
bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lb.	lb.
—	499-28	—	30-10	—	—	—	—	—	—	—	—
318-01	—	—	33-32	11-44	—	—	63-32	—	15-52	—	—
—	31-32	—	—	—	—	—	—	—	—	73,270	—
—	—	—	—	—	—	—	—	—	—	—	—
8-06	—	—	—	98-15	—	—	—	—	—	—	—
3,408-06	—	—	—	—	—	—	—	—	—	35,400	—
3,734-13	531-12	—	63-42	110-03	—	—	63-32	—	15-52	108,670	—
3,203-01	—	—	—	110-03	—	—	—	—	—	108,670	—
—	—	—	63-42	—	—	—	63-32	—	15-52	—	—

Weigh-overs of Grain Stored in PUBLIC TERMINAL Elevators, Crop Year 1951-52

Excess			Deficiency					
3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
—	—	—	—	—	40-30	885-40	—	—
—	—	—	—	—	138-10	725-40	—	—
—	—	—	—	—	3-30	148-10	—	—
—	—	—	—	3-50	3-40	19-10	—	—
—	—	—	—	—	8-30	8-10	—	—
2,491-10	—	—	—	—	35-50	—	—	—

**Table A-3.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed
Fort William-Port Arthur,**

Date of Weigh-over	Licensee	Excess		
		1 Hard	1 Northern	2 Northern
		bu.	bu.	bu.
Sept. 19-25.....	Canadian Consolidated Grain Co.— Empire.....	—	19-00	—
Dec. 15-21.....	Thunder Bay.....	—	—	2,385-00
	Federal Grain Ltd.—			
Dec. 12-18.....	Northwestern.....	—	—	—
Dec. 18-27.....	Stewart.....	—	—	—
	Fort William Elevator Co. Ltd.—			
Sept. 11-17.....	Elevator "E".....	—	—	—
Sept. 25-Oct. 1.....	Elevator "F".....	—	—	—
Dec. 18-21.....	Lakehead Terminals Ltd.....	—	9-10	1,891-30
	Manitoba Pool Elevators—			
April 15-17.....	Terminal No. 1.....	—	—	—
July 28-30.....	Terminal No. 2.....	—	—	—
July 2-5.....	Terminal No. 3.....	—	—	—
July 11-15.....	Terminal No. 6.....	—	—	—
April 28-30.....	Terminal No. 9.....	—	—	—
	McCabe Grain Co. Ltd.—			
Dec. 10-14.....	Dominion Government Elevator.....	—	—	—
	National Grain Co. Ltd.—			
Dec. 17-27.....	G.T.P.....	—	—	—
Sept. 22-29.....	Ogilvie Flour Mills Co. Ltd.....	—	—	—
June 23-26.....	N. M. Paterson & Co.....	—	—	—
	Saskatchewan Pool Terminals Ltd.—			
Dec. 21-Jan. 2.....	Terminal No. 4 and 4B.....	—	—	—
July 14-17.....	Terminal No. 5.....	—	-40	—
Mar. 10-21.....	Terminal No. 7.....	—	—	—
July 21-29.....	Searle Grain Co.....	—	—	—
July 31-Aug. 5.....	Superior Elevator Co. Ltd. (P and H)....	—	—	611-30
Aug. 20-29.....	United Grain Growers Terminal Ltd.....	—	—	—
Sept. 21-26.....	Western Grain Co. Ltd.....	—	—	—

**Table A-4.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed
Pacific Seaboard**

Date of Weigh-over	Licensee	Excess		
		1 Hard	1 Northern	2 Northern
		bu.	bu.	bu.
	VANCOUVER-NEW WESTMINSTER—			
Sept. 17-21, 1951.....	Alberta Wheat Pool No. 1.....	—	—	—
July 25-31, 1952.....	Midland Pacific Terminal.....	—	—	—
Sept. 11-13, 1951.....	Pacific Elevators Ltd.....	—	—	—
May 1-12, 1952.....	United Grain Growers.....	—	—	—
Nov. 19-22, 1951.....	Kerr-Gifford & Co., Inc., No. 2.....	—	—	—

**by Weigh-overs of Grain Stored in SEMI-PUBLIC TERMINAL Elevators at
Crop Year 1951-52**

Excess			Deficiency					
3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
—	—	—	—	—	134-50	222-00	—	—
—	—	—	—	7-50	—	11,024-10	1,471-40	—
—	—	—	—	177-50	1,671-20	5,155-50	—	1,154-30
—	—	—	—	1,653-30	7,447-30	3,816-10	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	58-10	616-40	953-40	—	2-00
—	—	—	—	—	—	703-40	—	—
—	—	—	—	137-30	992-00	1,963-40	3-40	64-40
—	—	—	—	38-30	723-10	2,088-10	—	—
—	—	—	—	—	39-50	27-40	—	—
—	—	—	—	479-50	11,191-10	20,896-00	—	—
—	—	—	—	223-50	1,374-30	3,685-50	—	3-30
—	—	—	—	63-30	2,239-20	5,994-10	—	—
—	—	—	—	2,702-00	14,240-20	285-30	—	41-10
—	—	—	—	45-40	3,544-40	2,192-30	—	—
—	—	—	—	11-30	618-50	180-30	—	—
—	—	—	—	2,812-40	8,143-10	12,923-20	—	28-40
—	—	—	—	—	33-30	62-40	—	1,871-50
—	—	—	—	1,634-10	6,097-20	4,931-00	3-50	47-20
—	—	—	—	3,674-00	4,299-00	12,632-50	—	1,932-20
—	—	—	—	499-30	—	1,050-40	—	—
—	—	—	—	624-50	7,043-00	4,915-20	8-20	405-30
—	—	1,571-50	—	34-20	135-00	685-30	2-30	—

**by Weigh-overs of Grain Stored in SEMI-PUBLIC TERMINAL Elevators at
Crop Year 1951-52**

Excess			Deficiency					
3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
—	—	—	—	6,869-10	13,146-50	12,317-30	26-10	54-50
—	—	20-20	—	2,119-30	2,318-40	5,591-30	—	—
—	—	—	—	6,845-20	10,731-00	9,121-50	—	376-40
—	—	—	—	809-50	1,348-40	31,004-20	—	589-30
824-00	—	—	—	295-00	2,456-10	—	—	62-40

Table A-5.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weigh-overs of Grain Stored in PRIVATE TERMINAL Elevators, Crop Year 1951-52.

Date of Weigh-over	Licensee	Grade of Wheat	Excess	Deficiency
1952			bu.	bu.
June 27	Canada Malting Co. Ltd. No. 1 Calgary.....	No. 1 Hard.....	—	—
		No. 1 Northern.....	—	—
		No. 2 Northern.....	—	—
		No. 3 Northern.....	—	44-50
		No. 1 C.W. Garnet.....	—	—
		No. 2 C.W. Garnet.....	—	—
July 8	Canada Malting Co. Ltd. No. 2 Calgary.....			
July 3	Canada Malting Co. Ltd. No. 3 Calgary.....			
June 4	Canada Malting Co. Ltd. Winnipeg.....	No wheat of the above grades was handled or in Store in these elevators.		
June 11	Dominion Malting Co. Ltd. S. Transcona.....			
July 2	National Grain Co. Ltd. (D. & S.) Fort William.....			

Table A-6.—Overages and Shortages Disclosed by Weigh-overs of Western Canadian and Foreign Grain Stored in EASTERN ELEVATORS, Crop Year 1951-52

Date of Weigh-over	Licensee	Kind of Grain	Overage	Shortage
1952			bu.	bu.
July 23- July 29	COLLINGWOOD— Collingwood Terminals Ltd.	Western Canadian Wheat.....	—	5,469-50
		Western Canadian Oats.....	680-05	—
		Western Canadian Barley.....	139-31	—
		Western Canadian Rye.....	—	528-36
		Western Canadian Screenings.....	*223,410	—
		Origin Unknown Screenings.....	—	*227,940
Apr. 7- Apr. 17	GODERICH— Goderich Elev. & Transit Co. Ltd.	Western Canadian Wheat.....	—	3,307-50
		Western Canadian Oats.....	—	5,903-03
		Western Canadian Barley.....	—	1,823-07
		Western Canadian Rye.....	—	360-52
		Western Canadian Flaxseed.....	19-17	—
		Western Canadian Mixed Grain.....	—	1-06
		Western Canadian Screenings.....	—	*4,250
		U.S.A. Corn.....	—	312-37
Apr. 15	Purity Flour Mills Co. Ltd.	Western Canadian Wheat.....	—	1,654-10
		Western Canadian Oats.....	—	1-30
		Western Canadian Barley.....	—	130-24
Mar. 24- Apr. 4	HUMBERSTONE— Robin Hood Flour Mills.....	Western Canadian Wheat.....	—	7,261-10
		Western Canadian Barley.....	—	31-00
		Western Canadian Flaxseed.....	—	39-06
Jan. 15- Jan. 18	KINGSTON— Canada Steamship Lines Elev... ..	Western Canadian Wheat.....	—	11,269-10
		Western Canadian Oats.....	—	139-16
		Western Canadian Barley.....	—	1,844-29
		Western Canadian Rye.....	—	128-44
		Western Canadian Flaxseed.....	—	594-55
		U.S.A. Flaxseed.....	—	8-36
		U.S.A. Corn.....	—	75-34
Feb. 29- Mar. 13	MIDLAND— Aberdeen Elevator Co. Ltd.....	Western Canadian Wheat.....	—	1,772-00
		Western Canadian Barley.....	—	37-31
		U.S.A. Barley.....	—	516-22

* Lbs.

Table A-6.—Overages and Shortages Disclosed by Weigh-overs of Western Canadian and Foreign Grain Stored in EASTERN ELEVATORS, Crop Year 1951-52
—Continued

Date of Weigh-over	Licensee	Kind of Grain	Overage	Shortage
1952			bu.	bu.
Mar. 24- Mar. 28	Canadian National Rlys. Elev.	Western Canadian Wheat.....	—	6,414-30
		Western Canadian Oats.....	—	268-07
		Western Canadian Barley.....	—	282-43
		Western Canadian Rye.....	—	275-31
Apr. 10- Apr. 19	Canada Steamship Lines Elevator.	Western Canadian Wheat.....	—	1,951-30
		Western Canadian Oats.....	—	773-02
		Western Canadian Barley.....	—	429-26
		Western Canadian Rye.....	—	95-10
Mar. 14- Mar. 21	Midland Simcoe Elevator.....	Western Canadian Wheat.....	—	3,121-50
		Western Canadian Oats.....	—	1,823-27
		Western Canadian Barley.....	—	1,084-12
		Western Canadian Rye.....	—	89-41
Apr. 4- Apr. 9	OWEN SOUND— Great Lakes Elev. Co. Ltd.	Western Canadian Wheat.....	—	6,241-50
		Western Canadian Oats.....	—	3,130-16
		Western Canadian Barley.....	—	1,437-41
		Western Canadian Rye.....	—	129-10
		Western Canadian Screenings.....	—	*12,850
Mar. 8- Mar. 10	PORT COLBORNE— National Harbours Board Elevator.	Western Canadian Wheat.....	—	11,539-00
		Western Canadian Oats.....	—	557-33
		Western Canadian Barley.....	—	9,595-10
		Western Canadian Rye.....	—	1,118-33
		Western Canadian Flaxseed.....	—	118-30
		U.S.A. Wheat.....	—	2,338-10
		U.S.A. Corn.....	—	378-54
		U.S.A. Soybeans.....	—	740-20
Mar. 11- Mar. 21	Maple Leaf Milling Co. Ltd.	Western Canadian Wheat.....	—	5,986-50
		Western Canadian Oats.....	—	254-18
		Western Canadian Oats Groats.....	—	49-00
		Western Canadian Barley.....	—	70-45
		Western Canadian Rye.....	—	54-31
		Western Canadian Buckwheat.....	—	1,712-35
		Sample Canada Buckwheat.....	5,895-00	—
		U.S.A. Corn.....	—	21-28
		U.S.A. Soybeans.....	—	106-49
Mar. 31- Apr. 2	PORT McNICOLL— Canadian Pacific Railway Elevator.	Western Canadian Wheat.....	—	8,895-20
		Western Canadian Oats.....	—	1,527-02
		Western Canadian Barley.....	—	847-22
		Western Canadian Rye.....	—	156-45
		U.S.A. Wheat.....	—	720-50
		U.S.A. Corn.....	—	161-49
Feb. 28- Mar. 6	PRESCOTT— National Harbours Board Elevator.	Western Canadian Wheat.....	—	1,389-10
		Western Canadian Oats.....	—	479-05
		Western Canadian Barley.....	135-45	—
		Western Canadian Flaxseed.....	—	91-31
		Western Canadian Sample Grain.....	—	*21,780
		U.S.A. Wheat.....	—	347-20
		U.S.A. Rye.....	—	77-17
		U.S.A. Corn.....	—	1,622-18
		U.S.A. Soybeans.....	—	51-50
		Origin Unknown Screenings.....	—	*155
Apr. 21- Apr. 22	WALKERVILLE— Hiram Walker & Sons Grain Corp. Ltd.	Western Canadian Wheat.....	—	911-40
		Western Canadian Oats.....	—	224-19
		Western Canadian Barley.....	—	14-00
		Western Canadian Rye.....	—	8,162-31
		Western Canadian Screenings.....	*9,113	—
		U.S.A. Corn.....	—	11,537-11
		U.S.A. Screenings.....	—	*52
		Origin Unknown Screenings.....	—	*1,420

* Lbs.

Table A-6.—Overages and Shortages Disclosed by Weigh-overs of Western Canadian and Foreign Grain Stored in EASTERN ELEVATORS, Crop Year 1951-52
—Concluded

Date of Weigh-over	Licensee	Kind of Grain	Overage	Shortage
1952			bu.	bu.
Feb. 11- Feb. 26	MONTREAL— National Harbours Board Elevator.	Western Canadian Wheat.....	—	36,158-45
		Western Canadian Oats.....	—	3,790-08
		Western Canadian Barley.....	—	9,287-46
		Western Canadian Rye.....	—	2,915-16
		Western Canadian Flaxseed.....	—	502-21
		Western Canadian Buckwheat.....	—	21-39
		Western Canadian Mixed Grain.....	—	*1,160
		Western Canadian Sample Grain.....	—	*400
		Western Canadian Screenings.....	—	*1,730
		U.S.A. Wheat.....	—	3,071-07
		U.S.A. Oats.....	—	206-27
		U.S.A. Barley.....	—	130-00
		U.S.A. Flaxseed.....	—	68-55
		U.S.A. Corn.....	—	1,864-16
		U.S.A. Soybeans.....	—	625-10
Jan. 24- Jan. 28	QUEBEC— National Harbours Board Elevator.	Western Canadian Wheat.....	—	6,697-10
		Western Canadian Oats.....	—	1,641-15
		Western Canadian Barley.....	—	4,614-33
		Western Canadian Rye.....	—	520-53
		Western Canadian Screenings.....	—	*1,380
		U.S.A. Barley.....	—	305-43
		U.S.A. Corn.....	—	-36
Jan. 29- Feb. 8	SOREL— North American Elevators Ltd..	Western Canadian Wheat.....	—	6,396-10
		Western Canadian Oats.....	—	290-24
		Western Canadian Barley.....	—	3,295-23
		Western Canadian Rye.....	—	199-36
		Western Canadian Screenings.....	—	*40
		U.S.A. Wheat.....	—	1,344-30
		U.S.A. Rye.....	—	77-02
		U.S.A. Corn.....	—	1,081-10
Jan. 21- Jan. 23	THREE RIVERS— Three Rivers Grain & Elevator Co. Ltd.	Western Canadian Wheat.....	—	7,407-30
		Western Canadian Oats.....	—	22-25
		Western Canadian Barley.....	—	12-31
		U.S.A. Corn.....	—	251-54

* Lbs.

APPENDIX B

Committee on Western Grain Standards, 1952

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners	
J. Vallance, Commissioner, Board of Grain Commissioners	
R. W. Milner, Commissioner, Board of Grain Commissioners	
A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners	
Dr. J. A. Anderson, Chief Chemist, Board of Grain Commissioners	
J. Forsyth, Chairman, Grain Appeal Tribunal, Winnipeg	
C. R. Manahan, Chairman, Grain Appeal Tribunal, Edmonton	
P. J. Marples, Chairman, Grain Appeal Tribunal, Calgary	
Dr. C. H. Goulden, Dominion Cerealist	
W. A. Hastings, representing the millers of wheat flour	
George Bennett.....	} Representing grain growers in Alberta
W. H. Fairfield.....	
Uri Powell.....	
B. S. Plumer.....	
A. F. Sproule.....	} Representing grain growers in Saskatchewan
A. P. Gleave.....	
J. Wellbelove.....	
L. L. Gray.....	
N. W. Strelieff.....	} Representing grain growers in Manitoba
W. J. Parker.....	
R. Barrett.....	
Ray Mitchell.....	
G. Constable, representing grain growers in British Columbia	
Nelson Young, representing Plant Products Division, Department of Agriculture	

Committee on Eastern Grain Standards, 1952

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners	
J. Vallance, Commissioner, Board of Grain Commissioners	
R. W. Milner, Commissioner, Board of Grain Commissioners	
A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners	
N. Clare Wight, representing Montreal Board of Trade	
E. D. Sullivan, representing Toronto Board of Trade	
Guy D. Robinson, representing exporters of grain	
F. H. Dunsford.....	} Representing millers of wheat in the Eastern Division
H. Norman Davis.....	
Hugh Bailey.....	} Representing grain growers in Ontario
W. A. Amos.....	
Wm. Wallace.....	} Additional—representing growers of corn
E. B. Paterson.....	
John W. Ham.....	

Meetings held: Western Committee, Winnipeg, October 3, 1952 and October 31, 1952
 Eastern Committee, Toronto, August 15, 1952 and November 14, 1952

APPENDIX C

Grain Appeal Tribunals

<i>Winnipeg</i>	<i>Calgary</i>	<i>Edmonton</i>
J. Forsyth, Chairman	P. J. Marples, Chairman	C. R. Manahan, Chairman
Grant Hammond	T. F. Allison	J. F. Schofield
W. E. McLeod	J. Tranter	M. G. Wood
A. F. Moore	W. M. Pringle	J. R. MacRae
James Gregory	W. G. McLeod	T. Stickney
S. C. Swanton	E. J. Munson	J. A. Kyle
J. F. Lazenby	G. C. Arbuthnott	H. A. Haggarty
D. K. Mills	A. Watson	C. E. Sage
H. R. Ballance	G. R. Deeton	Ross Saunders
J. A. Wittebolle (Acting Secretary)		D. K. McKay (Secretary)

<i>Toronto</i>	<i>Montreal</i>
John W. Ham	P. J. Smith (Chairman)
C. H. Coatsworth	A. W. Brown
R. C. Pratt	T. B. Earle
C. W. Heimbecker	J. A. Byrne
W. A. Robertson	J. M. Vittie
E. D. Sullivan	G. D. Robinson
K. F. Wadsworth	Helen M. Deuel (Secretary)
J. C. Noseworthy (Secretary)	

Summary of appeals for the crop year ended July 31, 1952

	Appeals Held	Disposition		
		Raised	Lowered	Unchanged
Winnipeg.....	603	48	Nil	555
Calgary.....	797	127	Nil	670
Edmonton.....	633	93	1	539
Toronto.....	Nil	Nil	Nil	Nil
Montreal.....	Nil	Nil	Nil	Nil
	2,033	268	1	1,764

APPENDIX D

Report of Licence and Bonding Branch

WINNIPEG, Manitoba,
December 15, 1952.

Board of Grain Commissioners,
Winnipeg, Manitoba.

SIRS,—I have the honour to submit the following report of the Licence and Bonding Branch covering operations of this Branch during the crop year August 1, 1951 to July 31, 1952, and for the period August 1 to December 1, 1952.

Licences and Bonds

In the crop year under review, the Licence and Bonding Office received 5,582 applications and issued 5,558 licences to operate under provisions of The Canada Grain Act. These applications came from 132 firms and individuals. Sixteen (16) licences were transferred and eight (8) applications withdrawn.

Following is a summary of applications received and licences issued listed by kind of licence:

Kind	Applications		Licences	
	Received	Withdrawn	Issued	Transferred
Public Country Elevators.....	5,376	5	5,371	14
Private Country Elevators.....	10	—	10	—
Mill Elevators.....	38	—	38	—
Public Terminal Elevators.....	6	—	6	—
Semi-Public Terminal Elevators.....	36	—	36	1
Private Terminal Elevators.....	7	—	7	—
Eastern Elevators.....	29	—	29	1
Track Buyers.....	22	—	22	—
Commission Merchants.....	28	—	28	—
Grain Dealers.....	14	3	11	—
Transfers.....	16	—	—	—
	5,582	8	5,558	16

In addition to the above-mentioned applications for regular elevator licences, the Board also received 49 applications for authority to operate off-site buildings as "Special Annexes" under authority of Order in Council P.C. 5122. Seven of these applications were rejected or withdrawn and forty-two authorities to operate were granted. No licence fee was required for licences to operate supplementary storage buildings but the applicants were required to deposit with the Board surety guarantee bonds to cover their operations at such buildings.

The total licensed storage capacity as at the end of the crop year on July 31, 1952, with 5,483 elevator licences in force, was 533,257,070 bushels. Elevators proper and permanent annexes comprised 460,334,820 bushels, temporary annexes 72,581,150 bushels and special annexes 341,100 bushels.

Twelve licences were cancelled by the Board during the crop year 1951-52 for the following reasons:

Elevators demolished.....	1
Elevators destroyed by fire.....	1
Elevator licences applied for in error.....	3
Elevators converted into permanent annexes.....	5
Elevator closed.....	1
Company ceased business.....	1

Six licences were suspended by the Board for varying periods during the crop year, due to repairs being necessary at licensed country elevators. Two were reinstated in due course after the buildings had been repaired and four were still in suspension at the close of the crop year.

Licence fees collected during the crop year 1951-52 amounted to \$29,406.; of this amount, \$40. was refunded to applicants who withdrew their applications for licences and \$12. on account of licences cancelled as from date of issue.

The net revenue and operating expenses calculated for the fiscal year April 1, 1951 to March 31, 1952, rather than for the crop year were as follows:

Revenue from licence fees.....	\$29,337.00
Operating expenses and salaries.....	22,982.02
Surplus.....	<u>\$6,354.98</u>

Guarantee bonds in the amount of \$29,389,886.50, executed by seventeen of the approved surety companies, were deposited with the Board as security under Section 79 of The Canada Grain Act to cover the operations of the licensees during the 1951-52 crop year. In addition, five licensees deposited negotiable Government bonds with a par value of \$25,500. in lieu of furnishing the usual forms of surety bonds.

During the first four months of the 1952-53 crop year, August 1 to December 1, 1952, 5,541 applications for licences of all classes were received and 5,524 licences were issued.

At December 1, 1952, there were 5,543 buildings classed as elevators under the provisions of The Canada Grain Act, with 5,513 in the Western Division and 30 in the Eastern Division, of which 5,467 were licensed. In addition, there were 54 buildings other than elevators, on and off-site, which were authorized for operation as special annexes.

The total licensed storage capacity as at December 1, 1952, was 539,289,860 bushels, permanent storage space amounting to 462,548,510 bushels, temporary 75,162,150 bushels and Special Annexes 1,579,200 bushels, an increase in licensed storage of 12,427,090 bushels since December 1, 1951.

Data on number and kind of licences and storage capacity for the past five years (1948-1952) are presented in Table D-1 of this appendix. Comparative figures given at five-year intervals since 1890 may be found on page 18 in the Board's Annual Report for 1951.

Further detailed information on elevators, licences, storage capacities, and other relative data may be found in a booklet entitled *List of Grain Elevators in the Western and Eastern Divisions** compiled by the Board of Grain Commissioners.

* Obtainable from The Queen's Printer, Ottawa.

Collection of One Per Centum Levy

The collection of the one per centum levy made under the provisions of the Prairie Farm Assistance Act for the crop year 1951-52, as recorded at this office, amounted to \$8,967,076.24 as compared with \$7,334,059.06 collected during the previous crop year. The total collections since the inception of the Act in August, 1939 to July 31, 1952, amount to \$64,356,488.71.

More detailed information is given in Tables D-2 and D-3 of this appendix.

The levy collected during the first three months of the new crop year from August 1 to November 1, 1952, is \$2,508,648.36.

Respectfully submitted,

C. F. SPITTLE,
Licensing Officer.

Table D-1.—Number and Kind of Licences Issued and Licensed Storage Capacity, as at December 1st Each Year for the Past Five Years

Kind of Licence	1952	1951	1950	1949	1948
NUMBER OF LICENCES					
Public Country Elevator.....	5,341	5,354	5,309	5,076	5,273
Private Country Elevator.....	10	10	9	9	9
Mill Elevator.....	38	38	37	37	43
Public Terminal Elevator.....	6	6	6	6	6
Semi-Public Terminal Elevator.....	36	35	34	33	31
Private Terminal Elevator.....	7	7	8	7	7
Eastern Elevator.....	29	29	29	29	29
Track Buyer.....	21	22	25	25	26
Commission Merchant.....	27	28	32	31	32
Grain Dealer.....	9	11	12	13	11
Total.....	5,524	5,540	5,501	5,266	5,467
LICENSED CAPACITY					
thousands of bushels					
Public Country Elevator.....	306,484	290,504	278,416	263,753	264,675
Private Country Elevator.....	350	354	323	448	476
Mill Elevator.....	13,426	13,306	13,306	13,306	13,477
Public Terminal Elevator.....	18,350	18,350	18,350	18,350	18,350
Semi-Public Terminal Elevator.....	108,455	114,524	105,991	104,342	99,565
Private Terminal Elevator.....	7,295	7,295	7,330	7,180	7,180
Eastern Elevator.....	84,930	82,530	82,514	82,514	82,514
Total.....	539,290	526,863	506,230	489,893	486,237

Table D-2.—Amounts Collected and Grain Purchased under the One Per Centum Levy, Prairie Farm Assistance Act, 1939, for period August 1, 1951 to July 31, 1952

Province	Wheat	Oats	Barley	Rye	Total
AMOUNTS COLLECTED					
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Manitoba.....	734,697 57	151,311 87	434,247 73	11,291 56	1,331,548 73
Saskatchewan.....	4,194,493 34	344,197 31	430,659 36	106,054 04	5,075,404 05
Alberta.....	1,831,881 59	212,618 34	458,023 33	62,483 48	2,560,006 74
Total.....	6,761,072 50	708,127 52	1,317,930 42	179,829 08	8,966,959 52
Amount not allocated to provinces.....					116 72
Total collections August 1, 1951 to July 31, 1952.....					8,967,076 24
GRAIN PURCHASED					
thousands of bushels					
Manitoba.....	45,317	24,827	37,382	697	108,223
Saskatchewan.....	279,197	62,952	43,653	6,627	392,429
Alberta.....	129,815	43,521	47,279	3,930	224,545
Total.....	454,329	131,300	128,314	11,254	725,197

Table D-3.—Summary of Collections of One Per Centum Levy under the Prairie Farm Assistance Act, since the inception of the Act to July 31, 1952, listed by Year and Province.

Crop Year	Manitoba	Saskatchewan	Alberta	Not Allocated	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1939-40.....	333,453 13	1,344,208 23	743,121 61	724 40	2,421,507 37
1940-41.....	354,813 76	1,360,540 00	866,831 79	502 32	2,582,687 87
1941-42.....	339,969 87	711,869 33	407,642 45	272 05	1,459,753 70
1942-43.....	481,974 50	1,536,146 00	710,632 53	322 51	2,729,075 54
1943-44.....	779,490 76	2,743,544 09	1,191,300 82	371 01	4,714,706 78
1944-45.....	754,366 36	3,218,572 23	1,412,417 31	230 71	5,385,586 61
1945-46.....	575,408 69	1,977,735 42	873,082 60	131 69	3,426,358 40
1946-47.....	845,631 86	2,703,357 17	1,644,706 41	112 20	5,193,807 64
1947-48.....	764,744 37	2,727,187 90	1,624,237 42	148 51	5,116,318 20
1948-49.....	1,120,741 27	3,417,480 86	2,084,098 52	6,185 87	6,628,496 52
1949-50.....	1,355,660 07	4,525,628 79	2,515,568 28	197 64	8,397,054 78
1950-51.....	1,442,138 08	3,890,444 68	2,001,322 58	153 72	7,334,059 06
1951-52.....	1,331,548 73	5,075,404 05	2,560,006 74	116 72	8,967,076 24
Total.....	10,479,941 45	35,232,118 75	18,634,959 16	9,469 35	61,356,488 71

APPENDIX E

Report of the Registrar of Warehouse Receipts

WINNIPEG, Manitoba,
December 1, 1952.

Board of Grain Commissioners for Canada,
Winnipeg, Manitoba.

SIRS,—I have the honour of submitting the following report covering the work of the Registration Branch for the crop year ended July 31, 1952.

Due to the very large crop which was of very poor quality, the offices of this Branch at Winnipeg and Vancouver in the Western Division and at Montreal in the Eastern Division have completed one of the most difficult operational years in their history. Despite many hours of overtime worked by regular members of the staff, it was necessary to engage additional temporary staff at Winnipeg and Vancouver in order to maintain the registration service to the trade at its proper standard. All previous records set for the volume of various registration procedures were broken and new records established during the year under review.

The main factors contributing to the increased work in this Branch were the multiplicity of "Off Grades" of grain resulting from the 1951 low grade crop, and the fact that a large percentage of the crop contained excessive moisture and had to be dried by artificial or natural means to prevent spoilage. Well over 300 different grades of grain were handled at some of the terminal elevators situated at the Head of the Lakes during the crop year 1951-52, as compared to an average of about 150 grades handled during a normal year.

A considerable number of warehouse receipts were required to be registered and cancelled each day to conform to the various grade adjustments carried out by terminal elevator licensees to provide additional bin space for the numerous grades awaiting unload. The registration and cancellation of warehouse receipts and calculation and checking of drying computations by individual car-lot weights, resulting from the artificial drying of damp and tough grain as carried out in terminal and Eastern elevators, totalled over 106 million bushels while registration of warehouse receipts covering natural drying operations amounted to over 46 million bushels. The daily totals of warehouse receipts required to be split, consolidated or re-issued also showed substantial increases over those of previous crop years.

Statements which follow show the total registration and registration for cancellation of warehouse receipts for primary receipts and shipments in the Western Division and all warehouse receipts or transfer receipts for inward and outward handlings in the Eastern Division during the crop year 1951-52.

Respectfully submitted,

C. J. BROWNSCOMBE,

Registrar.

Table E-1.—Warehouse Receipt Registrations for Receipts and Shipments in the Western Division by Grain and Point, 1951-52 Crop Year and 10-Year Average (1941-42 to 1950-51).

Point	Grain	Crop Year 1951-52		10-Year Average	
		Registered	Registered for Cancellation	Registered	Registered for Cancellation
thousands of bushels					
WESTERN DIVISION— Winnipeg.....	Wheat.....	261,066	277,737	210,627	215,948
	Oats.....	98,584	103,821	63,134	64,727
	Barley.....	86,036	88,003	43,712	42,596
	Flax.....	5,713	5,112	6,737	6,655
	Rye.....	9,470	7,766	7,387	7,339
	Mixed Grain.....	1,034	388	871	576
	Corn.....	25	25	130	128
	Other Grains.....	29	28	33	31
Vancouver.....	Wheat.....	107,068	102,821	38,789	40,227
	Oats.....	4,633	4,658	2,015	2,672
	Barley.....	8,217	7,818	1,048	974
	Flax.....	—	—	47	55
	Rye.....	2	2	34	34
	Mixed Grain.....	41	21	41	32
	Corn.....	50	1,166	286	23
	Other Grains.....	—	—	6	5
Calgary.....	Wheat.....	2,465	2,565	455	652
	Oats.....	20	24	175	173
	Barley.....	1,390	1,323	1,021	1,016
	Flax.....	—	—	18	21
	Rye.....	5	35	15	12
	Mixed Grain.....	—	1	3	3
	Corn.....	—	—	4	4
	Edmonton.....	Wheat.....	3,264	3,796	659	787
Oats.....		310	326	396	387
Barley.....		155	154	128	119
Flax.....		6	5	17	16
Rye.....		—	—	1	1
Mixed Grain.....		3	4	1	1
Corn.....		10	9	5	5
Lethbridge.....		Wheat.....	1,032	924	41	163
	Oats.....	—	—	—	1
	Barley.....	12	12	2	2
	Flax.....	—	—	27	26
	Rye.....	4	3	—	—
Moose Jaw.....	Wheat.....	2,665	4,940	976	1,131
	Oats.....	2	4	61	65
	Barley.....	13	11	18	36
	Flax.....	1	1	156	142
	Rye.....	3	2	1	1
	Mixed Grain.....	2	3	2	10
	Other Grains.....	—	—	160	144
	Corn.....	—	—	4	1
Saskatoon.....	Wheat.....	2,988	4,901	916	1,041
	Oats.....	2	—	93	100
	Barley.....	9	8	22	25
	Flax.....	—	—	151	152
	Rye.....	—	—	—	—
	Mixed Grain.....	1	3	5	6
	Other Grains.....	77	56	30	30
Prince Rupert.....	Wheat.....	2,632	2,625	19	140
	Oats.....	—	2	—	—
	Barley.....	3,957	3,500	—	—
	Mixed Grain.....	—	10	—	—

Table E-2.—Summary of Warehouse Receipt Registrations for Receipts and Shipments by Grain for Eastern and Western Divisions, 1951-52 Crop Year and 10-Year Average (1941-42 to 1950-51).

Point	Grain	Crop Year 1951-52		10-Year Average	
		Registered	Registered for Cancellation	Registered	Registered for Cancellation
		thousands of bushels			
WESTERN DIVISION—					
All Points.....	Wheat.....	383,180	400,310	252,482	260,089
	Oats.....	103,551	108,835	65,874	68,125
	Barley.....	99,789	100,830	45,951	44,768
	Flax.....	5,720	5,118	7,153	7,064
	Rye.....	9,484	7,807	7,438	7,387
	Mixed Grain.....	1,081	429	923	628
	Corn.....	85	1,200	429	161
	Other Grains.....	106	84	229	210
Total—All Grains.....		602,996	624,613	380,479	388,432
EASTERN DIVISION—					
Montreal.....	Wheat.....	380,834	358,873	265,747	270,682
	Oats.....	43,281	43,028	36,475	36,219
	Barley.....	113,965	111,408	23,633	22,850
	Flax.....	7,371	7,271	4,944	4,954
	Rye.....	7,804	7,652	4,601	4,542
	Mixed Grain.....	110	115	342	335
	Sunflower Seed....	—	—	11	11
	Corn.....	6,886	7,338	14,044	14,230
	Screenings.....	511	525	923	933
	Peas.....	—	—	17	23
	Beans.....	919	578	808	807
	Buckwheat.....	260	266	66	64
	Other Grains.....	9	3	193	192
Total—All Grains.....		561,950	537,057	351,804	355,842

Table E-3.—Summary of Registration Fees Collected, Eastern and Western Divisions, Crop Year 1951-52 and 10-year Average (1941-42 to 1950-51)

	Crop Year 1951-52		10-Year Average
	\$	cts.	\$ cts.
WESTERN DIVISION—			
Winnipeg.....	37,793	48	26,825 12
Vancouver.....	9,459	97	3,451 50
Prince Rupert.....	509	05	6 36
Calgary.....	313	15	142 86
Edmonton.....	321	66	100 95
Lethbridge.....	79	48	10 43
Moose Jaw.....	305	83	116 36
Saskatoon.....	321	82	102 80
Total.....	49,104	44	30,756 43
EASTERN DIVISION—			
Montreal.....	10,990	09	7,076 44
Grand Total.....	60,094	53	37,832 87

APPENDIX F

Report of Chief Grain Inspector

WINNIPEG, Manitoba,
October 21, 1952.

Board of Grain Commissioners for Canada,
Winnipeg, Manitoba.

SIRS,—

I have the honour to submit herewith the annual report on the work of the Board's Inspection Branch during the crop year ended July 31, 1952. The report covers car inspections and cargo inspections in the Western Division, and car inspections, cargo inspections, and sampling of grain in the Eastern Division.

In early August of 1951 indications were that the three Prairie Provinces, with the exception of a small area in Southern Saskatchewan, would harvest good crops of all cereal grains. But after considerable cutting had taken place, continued rains and some snow caused grains to sprout and develop mildew, particularly in the Southern areas of the three provinces. The inclement weather continued and gave farmers no alternative other than to thresh regardless of the condition of the grain. As a result, about half of the 1951 crops graded Tough or Damp.

Early in the Fall all drying facilities were put into use at the Lakehead and Pacific terminals, and at Interior Government Elevators. Arrangements were also made to dry approximately 15,600,000 bushels of damp wheat at Duluth and Buffalo in the United States; this operation was supervised by Inspectors from the Winnipeg and Lakehead staffs. Moreover, terminals at Sarnia, Walkerville and Toronto dried considerable amounts of damp grain. During the crop year, approximately 122 million bushels of grain were dried by artificial means, and a further 46 million by natural means.

In some areas, mainly in Saskatchewan and Alberta, heavy snows made it impossible to operate farm machinery and much grain was left for spring threshing. Fortunately all three Prairie Provinces experienced a prolonged period of warm dry weather in the spring, and the balance of the crop that over-wintered in the field was threshed in dry condition.

In the Eastern Division the yield of Winter Wheat in some areas was less than anticipated due to two factors; bunt smut and Hessian Fly damage. All other crops were harvested under ideal conditions with yield and quality excellent.

The total number of cars inspected in the Western Division for the crop year 1951-52 was 360,498 against 266,526 for the previous year, an increase of 93,972.

Respectfully submitted,

A. F. DOLLERY,
Chief Grain Inspector.

WESTERN DIVISION

Table F-1.—Primary Carlot Inspections from August 1, 1951 to July 31, 1952, by Grains, compared with 1950-51 and 10-year average 1941-42 to 1950-51

	1951-52	1950-51	10-year Average	1951-52	1950-51	10-year Average
	Number of carlots			Percentage of total		
Wheat.....	249,112	184,945	178,920	69.10	69.39	68.60
Oats.....	46,063	36,191	38,264	12.78	13.58	14.67
Barley.....	55,005	38,042	32,479	15.26	14.27	12.45
Flax.....	4,021	1,982	5,555	1.12	0.74	2.13
Rye.....	5,391	4,780	4,465	1.49	1.79	1.71
Mixed Grain.....	470	273	457	0.13	0.10	0.18
Corn.....	39	42	175	0.01	0.02	0.07
Buckwheat.....	30	16	4	0.01	0.01	*
Screenings.....	333	232	412	0.09	0.09	0.16
Peas.....	25	23	51	0.01	0.01	0.02
Sunflower Seeds.....	—	—	23	—	—	0.01
Rapeseed.....	9	—	*	*	—	*
Speltz.....	—	—	*	—	—	*
Soybeans.....	—	—	*	—	—	*
Totals.....	360,498	266,526	260,805	100.00	100.00	100.00

* Too few to record.

Table F-2.—Primary Carlot Inspections from August 1, 1951 to July 31, 1952, by Points, compared with 1950-51 and 10-year average 1941-42 to 1950-51

	1951-52	1950-51	10-year Average	1951-52	1950-51	10-year Average
	Number of carlots			Percentage of total		
Winnipeg.....	250,844	194,526	203,222	69.58	72.99	77.92
Calgary.....	42,302	27,640	21,068	11.74	10.37	8.08
Moose Jaw.....	5,246	6,706	4,763	1.45	2.52	1.83
Saskatoon.....	6,778	8,665	5,659	1.88	3.25	2.17
Medicine Hat.....	3,293	3,410	3,380	0.91	1.28	1.30
Lethbridge.....	628	34	530	0.18	0.01	0.20
Vancouver.....	7,870	2,968	896	2.18	1.11	0.38
Edmonton.....	39,384	18,573	19,659	10.93	6.97	7.54
Churchill.....	4,153	4,004	1,528*	1.15	1.50	0.58
Totals.....	360,498	266,526	260,805	100.00	100.00	100.00

* Cars inspected during last five years only.

Table F-3.—Primary Carlot Inspections from August 1, 1951 to July 31, 1952, by Grain and Grades

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT			
1 Manitoba Northern.....	890	0.37	—
2 Manitoba Northern.....	10,216	4.26	—
3 Manitoba Northern.....	39,978	16.66	—
4 Manitoba Northern.....	27,879	11.62	—
No. 4 Special.....	287	0.12	—
No. 5.....	26,807	11.17	—
No. 6.....	14,201	5.92	—
Feed.....	2,107	0.88	—
Sample.....	248	0.10	—
Smutty.....	101	0.04	—
Tough.....	84,345	35.15	—
Damp.....	31,895	13.29	—
Rejected.....	993	0.42	—
No. 5 Special.....	10	—	—
Dried No. 5.....	7	—	—
Total Red Spring Wheat.....	239,964	100.00	96.33

Table F-3.—Primary Carlot Inspections from August 1, 1951 to July 31, 1952, by Grain and Grades—continued

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT—concluded			
2 Canada Western Garnet.....	74	6.37	—
3 Canada Western Garnet.....	500	43.03	—
Tough Canada Western Garnet.....	538	46.30	—
Damp Canada Western Garnet.....	44	3.79	—
Rejected Canada Western Garnet.....	6	0.51	—
Total Garnet Wheat.....	1,162	100.00	0.47
1 Canada Western Amber Durum.....	3	0.04	—
2 Canada Western Amber Durum.....	60	0.86	—
3 Canada Western Amber Durum.....	1,530	21.88	—
4 Canada Western Amber Durum.....	1,325	18.95	—
5 Canada Western Amber Durum.....	194	2.77	—
6 Canada Western Amber Durum.....	52	0.74	—
Smutty Canada Western Amber Durum.....	10	0.14	—
Tough Canada Western Amber Durum.....	2,461	35.19	—
Damp Canada Western Amber Durum.....	1,039	14.86	—
Rejected Canada Western Amber Durum.....	280	4.00	—
Sample Canada Western Amber Durum.....	39	0.56	—
Total Amber Durum Wheat.....	6,993	100.00	2.81
2 Canada Western Soft White Spring.....	7	2.23	—
3 Canada Western Soft White Spring.....	15	4.78	—
4 Canada Western Soft White Spring.....	17	5.42	—
Tough Canada Western Soft White Spring.....	116	36.94	—
Damp Canada Western Soft White Spring.....	151	48.09	—
Rejected Canada Western Soft White Spring.....	8	2.54	—
Total Soft White Spring Wheat.....	314	100.00	0.13
1 Canada Western Mixed Wheat.....	8	2.61	—
2 Canada Western Mixed Wheat.....	55	17.97	—
3 Canada Western Mixed Wheat.....	15	4.90	—
4 Canada Western Mixed Wheat.....	78	25.49	—
5 Canada Western Mixed Wheat.....	21	6.87	—
6 Canada Western Mixed Wheat.....	13	4.25	—
Tough Canada Western Mixed Wheat.....	81	26.47	—
Damp Canada Western Mixed Wheat.....	27	8.83	—
Rejected Canada Western Mixed Wheat.....	8	2.61	—
Total Mixed Wheat.....	306	100.00	0.11
1 Alberta Red Winter.....	50	13.40	—
2 Alberta Winter.....	151	40.50	—
3 Alberta Winter.....	57	15.28	—
4 Alberta Winter.....	23	6.17	—
Tough Alberta Winter.....	49	13.14	—
Damp Alberta Winter.....	10	2.68	—
Smutty Alberta Winter.....	9	2.40	—
Rejected Alberta Winter.....	24	6.43	—
Total Alberta Winter Wheat.....	373	100.00	0.15
Total All Wheats.....	249,112	—	100.00
Grade	Carlots	Percentage	

OATS

2 Canada Western.....	53	0.11
Extra 3 Canada Western.....	332	0.72
3 Canada Western.....	2,206	4.80

Table F-3.—Primary Carlot Inspections from August 1, 1951 to July 31, 1952, by Grain and Grades—continued

Grade	Carlots	Percentage
OATS—Concluded		
Extra 1 Feed.....	5,266	11.43
1 Feed.....	15,484	33.62
2 Feed.....	1,746	3.79
3 Feed.....	473	1.04
Mixed Feed Oats.....	10	0.02
Rejected Oats.....	398	0.86
Sample.....	423	0.92
Tough.....	14,361	31.17
Damp.....	5,306	11.52
Total Oats.....	46,063	100.00
BARLEY		
1 Canada Western Six Row.....	2	Nil
2 Canada Western Six Row.....	392	0.71
3 Canada Western Six Row.....	6,598	12.00
4 Canada Western Six Row.....	763	1.39
1 Canada Western Two Row.....	1	Nil
2 Canada Western Two Row.....	76	0.14
3 Canada Western Two Row.....	306	0.55
2 Canada Western Yellow.....	3	Nil
3 Canada Western Yellow.....	8	0.02
1 Feed.....	12,759	23.20
2 Feed.....	6,530	11.87
3 Feed.....	1,407	2.56
Rejected.....	117	0.21
Sample.....	93	0.17
Tough.....	18,981	34.51
Damp.....	6,969	12.67
Total Barley.....	55,005	100.00
FLAX		
1 Canada Western.....	914	22.73
2 Canada Western.....	493	12.26
3 Canada Western.....	136	3.39
4 Canada Western.....	29	0.72
Sample.....	6	0.15
Tough.....	2,215	55.10
Damp.....	227	5.65
Flax and Broken Grain.....	1	Nil
Total Flax.....	4,021	100.00
RYE		
1 Canada Western.....	8	0.15
2 Canada Western.....	1,085	20.13
3 Canada Western.....	1,674	31.05
4 Canada Western.....	447	8.29
Ergoty Rye.....	85	1.58
Rejected.....	12	0.22
Tough.....	1,798	33.35
Damp.....	271	5.03
Sample.....	11	0.20
Total Rye.....	5,391	100.00

Table F-3.—Primary Carlot Inspections from August 1, 1951 to July 31, 1952, by Grain and Grades—Concluded

Grade	Carlots	Percentage
MIXED GRAIN		
1 Canada Western Mixed Grain.....	29	6.17
2 Canada Western Mixed Grain.....	36	7.66
3 Canada Western Mixed Grain.....	83	17.66
4 Canada Western Mixed Grain.....	14	2.98
Tough.....	170	36.17
Damp.....	85	18.08
Sample.....	42	8.94
Rejected.....	11	2.34
Total Mixed Grain.....	470	100.00
CORN		
2 Canada Western Yellow.....	1	2.56
4 Canada Western Yellow.....	1	2.56
5 Canada Western Yellow.....	11	28.21
Tough.....	3	7.69
Damp.....	1	2.56
Wet.....	1	2.56
Sample.....	21	53.86
Total Corn.....	39	100.00
Buckwheat.....	30	—
Screenings.....	333	—
Peas.....	25	—
Rapeseed.....	9	—
Grand Total.....	360,498	—

Table F-4.—Carlots of Tough, Damp and Straight Grain Inspected at Primary Inspection Points, August 1, 1951 to July 31, 1952

Grain	Tough	Damp	Tough and Damp	Straight	Total
Carlots					
Wheat.....	87,590	33,130	120,720	128,392	249,112
Oats.....	14,361	5,306	19,667	26,396	46,063
Barley.....	18,981	6,969	25,950	29,055	55,005
Flaxseed.....	2,215	227	2,442	1,579	4,021
Rye.....	1,798	271	2,069	3,322	5,391
Others.....	173	87	260	646	906
All Grains.....	125,118	45,990	171,108	189,390	360,498
Percentage of Total					
	%	%	%	%	%
Wheat.....	35.2	13.3	48.5	51.5	100
Oats.....	31.2	11.5	42.7	57.3	100
Barley.....	34.5	12.7	47.2	52.8	100
Flaxseed.....	55.1	5.6	60.7	39.3	100
Rye.....	33.4	5.0	38.4	61.6	100
Others.....	19.1	9.6	28.7	71.3	100
All Grains.....	34.7	12.8	47.5	52.5	100

Table F-5.—Number of Two Pound Samples "Subject to Grade and Dockage" Inspected During the Crop Year 1951-52 Compared with the Crop Year 1950-51

Point	1951-52			1950-51		
	For Licensees	For Non-licensees	Total	For Licensees	For Non-licensees	Total
Winnipeg.....	15,121	2,874	17,995	3,544	20,603	24,147
Calgary.....	1,042	40	1,082	866	210	1,076
Edmonton.....	594	15	609	479	256	735
Lethbridge.....	2,026	51	2,077	582	108	690
Medicine Hat.....	103	20	123	27	38	65
Saskatoon.....	914	25	939	54	41	95
Moose Jaw.....	540	26	566	150	65	215
Total.....	20,340	3,051	23,391	5,702	21,321	27,023

Table F-6.—Carlots Re-inspected from August 1, 1951 to July 31, 1952

Point	In-spected	Re-inspected	Un-changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered
Number of Carlots							
Winnipeg.....	250,844	40,350	23,161	8,615	988	827	6,759
Calgary.....	42,302	5,577	2,178	2,195	66	227	911
Edmonton.....	39,384	10,146	3,576	3,168	82	319	3,001
Saskatoon.....	6,778	424	378	44	1	—	1
Moose Jaw.....	5,246	335	315	17	2	—	1
Medicine Hat.....	3,293	36	24	12	—	—	—
Lethbridge.....	628	—	—	—	—	—	—
Vancouver.....	7,870	249	182	66	1	—	—
Churchill.....	4,153	—	—	—	—	—	—
Totals.....	360,498	47,117	29,814	14,117	1,140	1,373	10,673
Percentage of Re-inspections							
		%	%	%	%	%	%
Winnipeg.....	—	100	57.40	21.35	2.45	2.05	16.75
Calgary.....	—	100	39.06	39.36	1.18	4.07	16.33
Edmonton.....	—	100	35.25	31.22	0.80	3.15	29.58
Saskatoon.....	—	100	89.15	10.37	0.24	—	0.24
Moose Jaw.....	—	100	94.03	5.07	0.60	—	0.30
Medicine Hat.....	—	100	66.66	33.34	—	—	—
Lethbridge.....	—	—	—	—	—	—	—
Vancouver.....	—	100	73.10	26.50	0.40	—	—
Churchill.....	—	—	—	—	—	—	—
Totals.....	—	100	52.20	24.72	1.99	2.40	18.69
Percentage of Total Inspections							
	%	%	%	%	%	%	%
Winnipeg.....	100	16.08	9.23	3.43	0.39	0.33	2.70
Calgary.....	100	13.18	5.15	5.19	0.15	0.54	2.15
Edmonton.....	100	25.76	9.08	8.04	0.21	0.81	7.62
Saskatoon.....	100	6.25	5.58	0.65	0.01	—	0.01
Moose Jaw.....	100	6.39	6.01	0.32	0.04	—	0.02
Medicine Hat.....	100	1.09	0.73	0.36	—	—	—
Lethbridge.....	100	—	—	—	—	—	—
Vancouver.....	100	3.16	2.31	0.84	0.01	—	—
Churchill.....	100	—	—	—	—	—	—
Totals.....	100	15.84	8.27	3.91	0.32	0.38	2.96

Table F-7.—Summary of Carlot Inspections Appealed during the Crop Year 1951-52

Item	Winnipeg		Edmonton		Calgary		Total	
	Cars	Per Cent	Cars	Per Cent	Cars	Per Cent	Cars	Per Cent
Left as Graded....	555	92.0	539	85.1	670	84.1	1,764	86.77
Grades Raised....	48	8.0	93	14.7	127	15.9	268	13.18
Grades Lowered....	—	—	1	2	—	—	1	0.05
Total.....	693	100.0	633	100.0	797	100.0	2,033	100.00
Total Cars Inspected.....							360,498	100.00
Total Appeals.....							2,033	0.57
Total Grades Changed.....							269	0.05

Table F-8.—Quantities of the Various Grains Inspected and Shipped by Vessel During the Crop Year 1951-52

Grain	Fort William and Port Arthur	Vancouver	Prince Rupert	Churchill	Duluth and Superior	Total
	bu.	bu.	bu.	bu.	bu.	bu.
Wheat.....	253,620,700	100,613,395	2,556,584	7,278,443	5,485,064	369,554,186
Oats.....	82,616,198	1,379,685	—	—	—	83,995,883
Barley.....	73,809,522	6,708,912	3,569,333	—	—	84,087,767
Flaxseed.....	4,071,347	71	—	—	—	4,071,418
Rye.....	6,977,329	—	—	—	—	6,977,329
Screenings.....	2,921,778	11,424	—	—	—	2,933,202
Mixed Grain.....	43,702	—	—	—	—	43,702
Barley—U.S.A.....	—	610,423	—	—	—	610,423
Corn—U.S.A.....	—	1,003,053	—	—	—	1,003,053
Total.....	424,060,576	110,326,963	6,125,917	7,278,443	5,485,064	553,276,963

Table F-9.—Outward Cars Inspected—Crop Year August 1, 1951 to July 31, 1952, Out of Public, Semi-Public and Private Elevators

Grain	Winnipeg	Fort William and Port Arthur	Calgary	Edmonton	Moose Jaw
Number of Carlots					
Wheat.....	473	9,659	1,507	2,410	3,186
Oats.....	1,182	10,103	51	72	131
Barley.....	757	10,076	214	69	33
Flaxseed.....	44	488	—	2	2
Rye.....	14	604	—	—	1
Screenings.....	411	2,560	215	34	79
Mixed Grain.....	63	161	114	3	87
Buckwheat.....	—	18	—	—	—
Rapeseed.....	—	1	—	—	—
Corn.....	2	—	—	—	—
Peas.....	9	—	—	—	—
Total.....	2,955	33,670	2,101	2,590	3,519
Number of Carlots					
	Saskatoon	Lethbridge	Medicine Hat	Vancouver and Prince Rupert	Churchill
Wheat.....	3,154	523	3	1,028	—
Oats.....	16	—	1	1,526	11
Barley.....	19	4	—	132	—
Flaxseed.....	2	—	10	—	—
Rye.....	9	—	—	1	—
Screenings.....	299	—	29	1,705	110
Mixed Grain.....	11	—	—	31	—
Buckwheat.....	—	—	—	—	—
Rapeseed.....	—	—	—	1	—
Corn.....	—	—	—	1	—
Peas.....	—	—	—	—	—
Total.....	3,510	527	43	4,425	121

EASTERN DIVISION

Table F-10.—Total Carlot, Cargo and Bin Inspections, Crop Year 1951-52

	Eastern Grain	Eastern Grain Cargoes	Western Grain Cargoes	Bin Inspection Eastern Grain	Bin Inspection Western Grain
	Carlots	bu.	bu.	bu.	bu.
Montreal.....	434	329,437	439,788	1,182,876	25,835
Toronto.....	1,613	439,988	—	6,830	—
Chatham.....	9,376	1,391,153	—	1,400	—
Total.....	11,423	2,160,578	439,788	1,191,106	25,835

Table F-11.—Carlots, Cargoes and Bins Sampled but not Inspected (Fees Collected Crop Year 1951-52

	Eastern Grain	Western Grain	U.S. Grain	Totals
	Carlots			
Montreal.....	62	303	13	378
Toronto.....	12	5	1	18
Chatham.....	36	2	—	38
Totals.....	110	310	14	434
	Cargoes			
	bu.	bu.	bu.	bu.
Montreal.....	779,389	2,119,413	740,062	3,638,864
Toronto.....	—	247,300	—	247,300
Chatham.....	1,391,153	785,760	—	2,177,113
Totals.....	2,170,542	3,152,473	740,062	6,063,277
	Bin Sampling			
	bu.	bu.	bu.	bu.
Montreal.....	401,203	45,479	—	446,682
Toronto.....	3,330	3,500	—	6,830
Chatham.....	—	—	423,910	423,910
Totals.....	404,533	48,979	423,910	877,422

Table F-12.—Western, Eastern and Foreign Grain Sampled for Export, Export in Bags and Inward, by Points (Fees not Collected) Crop Year 1951-52

	Export	Export in Bags	Inward	Totals
	bu.	bu.	bu.	bu.
Western Grain.....	209,415,646	526,256	60,649,819	270,591,721
Eastern Grain.....	2,062,617	4,793	1,547,296	3,614,706
U.S. Grain.....	402,451	—	179,695	582,146
Totals.....	211,880,714	531,049	62,376,810	274,788,573
Montreal.....	126,623,027	368,983	62,376,810	189,368,820
Sorel.....	19,333,822	—	—	19,333,822
Three Rivers.....	15,017,965	—	—	15,017,965
Quebec.....	26,171,579	160,200	—	26,331,779
Halifax.....	10,058,584	1,866	—	10,060,450
Saint John.....	14,675,737	—	—	14,675,737
Totals.....	211,880,714	531,049	62,376,810	274,788,573

Table F-13.—Carlot Inspections from August 1, 1951, to July 31, 1952, by Grain, Grades and Points

Grade	Montreal	Toronto	Chatham	Total
WHEAT				
2 C.E. Red Winter.....	—	—	2	2
1 C.E. White Winter.....	1	14	164	179
2 C.E. White Winter.....	79	143	522	744
3 C.E. White Winter.....	20	23	85	128
4 C.E. White Winter.....	1	—	15	16
5 C.E. White Winter.....	—	—	3	3
1 C.E. Mixed Winter.....	—	—	201	201
2 C.E. Mixed Winter.....	25	23	690	738
3 C.E. Mixed Winter.....	2	6	80	88
4 C.E. Mixed Winter.....	—	—	6	6
Unfit for Human Consumption.....	—	1	4	5
Tough.....	104	565	1,254	1,923
Damp.....	1	5	10	16
Smutty.....	1	55	87	143
Sample.....	—	4	19	23
Total Wheat.....	234	839	3,142	4,215
OATS				
1 C.E. White.....	—	3	—	3
2 C.E. White.....	—	4	6	10
3 C.E.	8	—	8	16
4 C.E.	—	1	2	3
Mixed Feed.....	2	20	—	22
Extra 1 Feed.....	1	—	—	1
Tough.....	31	3	5	39
Damp.....	2	—	—	2
Total Oats.....	44	31	21	96
BARLEY				
2 C.E. 6 Row.....	—	—	4	4
3 C.E. 6 Row.....	1	29	29	59
4 C.E.	17	—	—	17
5 C.E.	6	—	—	6
1 Feed.....	2	11	—	13
2 Feed.....	47	10	—	57
3 Feed.....	14	62	—	76
Tough.....	2	7	20	29
Damp.....	1	—	—	1
Sample.....	1	6	—	7
Total Barley.....	91	125	53	269
RYE				
2 C.E.	—	1	25	26
3 C.E.	—	—	13	13
4 C.E.	—	—	1	1
Tough.....	1	7	47	55
Damp.....	—	—	7	7
Total Rye.....	1	8	93	102
MIXED GRAIN				
3 C.W.	—	2	—	2
3 C.E.	1	—	—	1
Sample.....	—	2	—	2
Total Mixed Grain.....	1	4	—	5
BUCKWHEAT				
2 C.E.	1	—	1	2
Tough.....	8	—	10	18
Damp.....	36	6	12	54
Total Buckwheat.....	45	6	23	74

Table F-13.—Carlot Inspections from August 1, 1951, to July 31, 1952, by Grain, Grades and Points—concluded

Grade	Montreal	Toronto	Chatham	Total
CORN				
Extra Dry 1 C.E. Yellow.....	—	9	353	362
1 C.E. Yellow.....	—	42	500	542
Extra Dry 2 C.E. Yellow.....	—	2	423	425
Extra Dry 2 C.E. Yellow Flint and Dent.....	—	—	2	2
2 C.E. Yellow.....	1	14	797	812
Extra Dry 3 C.E. Yellow.....	—	6	105	111
3 C.E. Yellow.....	—	14	122	136
Extra Dry 4 C.E. Yellow.....	—	6	31	37
4 C.E. Yellow.....	—	7	44	51
Extra Dry 5 C.E. Yellow.....	—	2	4	6
5 C.E. Yellow.....	2	—	11	13
1 C.E. White.....	—	—	1	1
Extra Dry 2 C.E. White.....	—	—	1	1
2 C.E. White.....	—	—	3	3
3 C.E. White.....	—	—	1	1
Extra Dry 4 C.E. White.....	—	—	1	1
4 C.E. White.....	—	—	1	1
Extra Dry 1 C.E. Mixed.....	—	—	1	1
1 C.E. Mixed.....	—	—	1	1
Extra Dry 2 C.E. Mixed.....	—	—	4	4
2 C.E. Mixed.....	—	—	1	1
Extra Dry 3 C.E. Mixed.....	—	—	1	1
3 C.E. Mixed.....	—	—	1	1
4 C.E. Mixed.....	—	—	1	1
Extra Dry Sample C.E.....	—	—	3	3
Tough.....	—	6	269	275
Damp.....	—	—	346	346
Moist.....	—	1	931	932
Wet.....	—	2	291	293
Sample.....	3	—	5	8
Total Corn.....	6	111	4,255	4,372
BEANS				
Extra Dry 1 C.E. Pea.....	—	—	1	1
1 C.E. Pea.....	1	—	184	185
2 C.E. Pea.....	—	—	165	165
3 C.E. Pea.....	—	—	11	11
4 C.E. Pea.....	—	—	2	2
3 C.E. Yelloweyes.....	—	—	1	1
2 C.E. Red Kidney.....	—	—	1	1
Tough.....	—	—	56	56
Sample.....	—	—	1	1
Total Beans.....	1	—	422	423
SOYBEANS				
1 Can. Yellow.....	—	368	898	1,266
2 Can. Yellow.....	—	3	67	70
3 Can. Yellow.....	—	—	9	9
4 Can. Yellow.....	—	1	3	4
5 Can. Yellow.....	—	—	1	1
Tough.....	—	62	345	407
Damp.....	—	4	29	33
Moist.....	—	1	5	6
Sample.....	—	—	2	2
Total Soybeans.....	—	439	1,359	1,798
FLAXSEED				
1 C.E.....	2	5	1	8
2 C.E.....	—	2	3	5
3 C.E.....	3	2	—	5
Tough.....	6	34	4	44
Damp.....	—	7	—	7
Total Flaxseed.....	11	50	8	69
Grand Totals.....	434	1,613	9,376	11,423

APPENDIX G

Report of the Weighing Branch

FORT WILLIAM, Ontario,

December 22, 1952.

Board of Grain Commissioners,
Winnipeg, Manitoba.

SIRS,—I have the honour to submit herewith the following report of the Grain Weighing Branch of the Board for the Crop Year 1951-52.

Weighing Services

This Branch supplied weighing services at all Public, Semi-Public and Private Terminal Elevators licensed by the Board in the Western Division for weighing all grain received into and shipped out of these elevators, as required under Sections 91 and 123 of The Canada Grain Act. Weighing services were also provided when required at licensed Mill Elevators.

In the Eastern Division, weighing services were available at licensed Eastern Elevators at Port McNicoll, Midland, Owen Sound, Goderich, Toronto and Sarnia on a fees basis for the weighing of shipments for domestic use.

In Tables G-1 to G-3 of this appendix are given gross quantities and carlots of various grains weighed at different points.

Maintenance of Equipment

In spite of the tremendous volume of work at Terminal and Eastern Elevators that was required to handle the 1951 crop, necessitating operation almost 24 hours per day, the equipment for receiving, shipping and transferring grain has been maintained in satisfactory condition. A considerable amount of maintenance and repair work was done on scales in the above elevators to keep them functioning properly under the heavy strain to which they were subjected during the past year. This work has been done in a most satisfactory manner and passed inspection.

Inspection of Scales

Under the writer's authority as Inspector of Weights and Measures for scales in Terminal and Eastern Elevators, and with the help of the Assistant Chief Weighmaster, Mr. W. H. Comba, the annual inspection in the Western and Eastern Divisions was carried out during the crop year in accordance with the Weights and Measures Act and regulations respecting Weights and Measures, P.C. 6894 of December 19, 1951. Certificates of verification were issued covering all scales inspected at terminal elevators licensed by the Board at the Lakehead; at interior points including Moose Jaw, Saskatoon, Edmonton, Calgary and Lethbridge; at Port Churchill and at the Pacific Ports of Vancouver, New Westminster, Victoria and Prince Rupert. Annual inspections were also made and certificates of verification issued on scales at Eastern Elevators at the following eighteen points: Port McNicoll, Midland, Collingwood, Owen Sound, Goderich, Sarnia, Walkerville, Toronto, Port Colborne, Kingston, Prescott, Montreal, Sorel, Three Rivers, Quebec, Saint John, West Saint John and Halifax.

In addition, semi-annual inspection of scales and special inspections when considered necessary, were made at terminals in the Western Division on behalf of the Board, so that continued accurate operation of these scales would be assured.

Shortages in Carlot Shipments

All complaints received on the outturns of cars unloaded into terminal elevators were thoroughly investigated and when the investigation warranted it, adjustments were made or recommended. The total amount of grain involved in the adjustments was 8,755-00 bushels.

Last year, reference was made to the proper installation of grain doors. There is still room for improvement in this connection as a large number of cars arriving at terminal elevators are found to have leaking grain doors because these doors are not properly installed. Data relating to cars reported leaking may be found in Tables G-4 and G-5 of this appendix.

Vessel Shipments

During the crop year in review, there were 1,763 vessels loaded at the Lakehead ports, 558 at Pacific Coast ports and 21 at Port Churchill.

Table G-6 shows the average reported shortages in pounds per 1,000 bushels on the various grains loaded at Fort William and Port Arthur and unloaded at Canadian and American ports. These data indicate an improvement in outturns over last year and over the five-year average.

All complaints on the outturns of cargoes which were received have been thoroughly investigated and results of these investigations have been referred to the Board with appropriate recommendations.

Annual Weighovers

The annual audits of grain in store in licensed elevators in the Eastern and Western Divisions were carried out as required under Sections 138 and 138A of The Canada Grain Act.

In the Western Division, all grain in store in Public and Semi-Public Terminal Elevators and the first four statutory grades of hard Red Spring Wheat and grades of No. 1 and No. 2 C.W. Garnet in Private Terminal Elevators, were weighed over. In the Eastern Division, all grain in store in elevators licensed as Eastern Elevators was also weighed over. Statements of the correct quantities of the various grades in store in each of the above elevators were submitted through the Chief Statistician's office to the Board to permit adjustments of outstanding warehouse receipts, and to determine overages or shortages in accordance with the provisions of Sections 138 and 138A of The Canada Grain Act.

Personnel

It is with regret that we record the deaths of Mr. S. G. Humphrey on January 16th, Mr. Thomas Franks on October 11th and Mr. W. Hutchinson on December 17th, 1952, who were valued members of the Weighing Branch staff.

During 1952, eight employees of the Weighing Branch retired after serving for long periods which vary between twenty-four and forty years.

Respectfully submitted,

S. M. CAPON,

Chief Weighmaster.

Table G-1.—Gross Quantity of All Grains Weighed in the Western Division (Excluding Fort William and Port Arthur)
During 1951-52 Crop Year

RECEIPTS

Point	Wheat	Oats	Barley	Rye	Flaxseed	Canadian Corn	U.S.A. Barley	U.S.A. Corn	Canadian Miscellaneous
	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lb.
Vancouver and New Westminster	109,523,328	4,675,809	6,533,548	2,023	65	—	1,777,977	49,814	9,109,890
Victoria	—	—	—	—	—	—	—	—	—
Prince Rupert	2,715,474	99	4,002,088	—	—	—	—	—	—
Churchill	7,556,224	332	—	—	—	—	—	—	—
Calgary	2,514,063	20,469	1,390,485	4,744	90	—	—	—	—
Edmonton	3,340,095	311,282	155,787	—	7,012	2,739	—	7,113	57,760
Lethbridge	1,048,355	—	12,195	3,606	—	—	—	—	—
Moose Jaw	2,716,693	2,185	12,974	3,107	716	—	—	—	94,890
Saskatoon	3,079,374	935	9,357	—	—	—	—	—	3,914,465
North Transcona	853,760	75,543	83,708	12,029	7,905	—	—	—	15,139,610
Kenora	238,740	120	—	—	—	—	—	—	—
Total Receipts	133,586,106	5,083,774	12,200,142	28,109	15,788	2,739	1,777,977	56,927	28,316,615

SHIPMENTS

Vancouver and New Westminster	103,821,348	4,657,601	5,875,193	2,130	488	—	1,943,132	1,166,532	128,437,460
Victoria	—	—	—	—	—	—	—	—	—
Prince Rupert	2,695,480	2,085	3,500,431	—	—	—	—	—	4,613,920
Churchill	7,545,444	22,832	—	—	—	—	—	—	7,350,986
Calgary	2,568,467	20,526	1,323,217	34,668	—	—	—	6,637	2,707,560
Edmonton	3,794,155	316,554	137,855	—	4,611	1,999	—	—	4,695,655
Lethbridge	1,024,454	—	11,900	3,215	—	—	—	—	313,650
Moose Jaw	4,938,116	2,631	12,351	3,107	716	—	—	—	3,482,450
Saskatoon	4,900,582	383	7,814	40,990	—	—	—	—	11,049,810
North Transcona	472,409	102,430	82,430	12,629	9,078	—	—	—	14,444,370
Kenora	10,584	—	—	—	—	—	—	—	202,460
Total Shipments	131,603,408	5,126,842	10,971,251	96,739	14,893	1,999	1,943,132	1,473,169	177,298,321

Table G-2.—Gross Quantities of Various Grains Weighed Into and Out of Elevators at Fort William-Port Arthur During the Crop Year Ended July 31, 1952

RECEIPTS

Grain	Receipts from Western Canada	Transfer Receipts		Total
		Rail	Vessel	
	bu.	bu.	bu.	bu.
Wheat.....	256,252,950	1,774,499	166,530	258,193,979
Oats.....	100,075,560	250,103	9,564	100,335,227
Barley.....	90,620,124	1,084,087	114,213	91,818,424
Rye.....	9,367,683	696,539	—	10,064,222
Flaxseed.....	6,560,955	177,903	—	6,738,858
Canadian Western Buckwheat.....	32,403	220	—	32,623
U.S.A. Wheat.....	117,060	—	—	117,060
U.S.A. Corn.....	24,914	—	—	24,914
Mixed Grain ¹	799,055	17,357	—	816,412
Sample Grain ¹	237,493	9,428	—	246,921
All Screenings ²	447,700	127,040	—	574,740
Grand Total.....	—	—	—	468,963,380

SHIPMENTS

Grain	Vessel	Rail	Transfer Shipments		Total
			Rail	Vessel	
	bu.	bu.	bu.	bu.	bu.
Wheat.....	253,258,511	14,458,097	1,775,950	163,144	269,655,702
Oats.....	82,606,638	21,524,055	249,422	9,564	104,389,679
Barley.....	73,740,723	17,596,597	1,103,749	104,810	92,545,879
Rye.....	6,977,331	70,543	705,612	—	7,753,486
Flaxseed.....	4,071,347	954,194	178,484	—	5,204,025
Canadian Western Buckwheat.....	—	27,868	—	—	27,868
U.S.A. Wheat.....	199,323	—	—	—	199,323
U.S.A. Corn.....	—	24,900	—	—	24,900
Mixed Grain ¹	52,444	206,856	18,587	—	277,887
Sample Grain ¹	—	123,803	12,175	—	135,978
All Screenings ²	3,652,647	5,028,489	122,811	—	8,803,947
Grand Total.....	—	—	—	—	489,018,674

¹ Mixed Grain in bushels of 50 pounds.² Screenings in bushels of 48 pounds.**Table G-3.—Number of Carlots of All Grain Weighed at Interior Points Other Than Public Interior Terminals, Crop Year 1951-1952**

Point	Number of Carlots
Keewatin and Kenora.....	5,624
Winnipeg.....	12,342
Saskatoon.....	5,996
Moose Jaw.....	4,725
Calgary.....	7,315
Edmonton.....	445
Medicine Hat.....	3,680
Lethbridge.....	33
Churchill.....	4,278
Total.....	44,438

Table G-4.—Number of Cars Leaking and Cars with Missing or Defective Seals at the Lakehead, at Other Points and at Winnipeg Yards, by Railway, for Crop Year 1951-1952.

Destination	Cars Leaking		Missing Seals		Defective Seals	
	C.N.R.	C.P.R.	C.N.R.	C.P.R.	C.N.R.	C.P.R.
Lakehead Elevators and Yards.....	19,737	25,803	1,511	2,520	285	457
Other Points.....	6,994	9,940	538	1,085	133	471
Totals.....	26,731	35,743	2,049	3,605	418	928
Total Both Railways.....	62,474		5,654		1,346	
Winnipeg Yards.....	1,862	4,954	1,032*	1,572*		

* Figures are for missing and defective seals combined.

Table G-5.—Number of Cars Weighed at all Points and Percentage of such Cars found Leaking or with Defective Seals, Crop Year 1951-52

	Number	Percentage of Total
Cars Weighed in.....	368,045	100.0
Inward Cars Leaking.....	62,474	17.0
Inward Cars with Missing or Defective Seals.....	7,000	1.9
Cars Weighed out.....	59,546	—

Table G-6.—Average Reported Shortages in pounds per 1,000 bushels on the various grains loaded at Fort William and Port Arthur and unloaded at Canadian and United States ports for the 1952 Navigation Season.

Grain	Bushels	Shortage in Pounds per 1,000 Bushels
CANADIAN PORTS		
Wheat.....	203,160,504	29.46
Durum Wheat.....	8,828,761	30.27
Oats.....	34,385,396	20.33
Barley.....	63,566,608	28.83
Rye.....	4,246,806	92.93
Flaxseed.....	4,071,347	46.82
Sample Grain (in lbs.).....	3,030,940	1.26 lbs. per 1,000 lbs.
Screenings (in tons).....	7,162.8	2.15 lbs. per ton
UNITED STATES PORTS		
Wheat.....	39,739,356	53.80
Durum Wheat.....	1,271,795	50.87
Oats.....	48,488,631	28.89
Barley.....	9,708,067	40.74
Rye.....	2,730,525	72.32
Screenings (in tons).....	80,817.8	Nil
TOTAL CANADIAN AND UNITED STATES PORTS		
Wheat.....	243,015,721	33.44
Durum Wheat.....	10,100,556	32.86
Oats.....	82,874,027	25.34
Barley.....	73,274,675	30.41
Rye.....	6,977,332	84.88
Flaxseed.....	4,071,347	46.82
Sample Grain (in lbs.).....	3,030,940	1.26 lbs. per 1,000 lbs.
Screenings (in tons).....	87,980.6	0.17 lbs. per ton
EUROPE—DIRECT		
Wheat.....	115,861	(No reports of outturns received. These figures not included in Bill of Lading totals used in calculating average shortage per 1,000 bus.)

APPENDIX H

Report of the Chief Statistician

FORT WILLIAM, Ontario,
January 10, 1953.

Board of Grain Commissioners,
Winnipeg, Manitoba.

SIRS,—I have the honour to submit the following report for the Statistics Branch for 1952. This report presents grain statistics for the 1951-52 Crop Year, the 1952 Season of Navigation on the Great Lakes, and a preliminary statement relating to Canada's 1952 harvest.

Canadian wheat stocks of 189.2 million bushels were carried into the 1951-52 season. This carry-over combined with 1951 production of 553.0 millions made up a total supply of 742.0 million bushels available for the 1951-52 Crop Year for export, domestic use and carry-over. At the end of the Crop Year, July 31, 1952, these supplies had been reduced to 213.0 million bushels held on farms and in visible positions.

The July 31, 1952, carry-over of Canadian coarse grains and flaxseed was estimated as follows, with closing stocks for the previous year shown in brackets: oats 104.9 (95.2), barley 76.9 (53.5), rye 7.7 (3.3) and flaxseed 2.4 (1.2) million bushels. These year-end supplies were, with the exception of flaxseed, all well above the 1941-50 average carry-overs.

A new wheat production record has been established by Canada's 1952 crop which is currently estimated by the Dominion Bureau of Statistics at 688.0 million bushels. The previous high yield was the 1928 crop of 567.0 million bushels.

The 1951 outturn has now been revised to 553.0 million bushels following completion of unprecedented spring harvesting operations.

Canadian coarse grain and flaxseed production in 1952 reflected moderate increases in all grains excepting oats according to November estimates as follows, with 1951 outturns shown in brackets: oats 466.1 (488.2), barley 291.3 (245.2), rye 24.6 (17.6), and flaxseed 13.0 (9.9) million bushels. Barley production represents an all time record—32.0 million bushels greater than the previous high yield of 259.0 millions in 1942.

More detailed production, distribution and carry-over statistics may be found in Tables H-1 to H-4 of this appendix.

Farm Deliveries

Western farm wheat deliveries for the 1951-52 crop season amounting to 454.0 million bushels were increased in volume over both the marketings of the previous season (368.0 millions) and the average for the years 1946-47 to 1950-51 (312.4 million bushels).

Western Farm Wheat Deliveries—Season 1951-52

Delivered to	Manitoba	Saskatchewan	Alberta and British Columbia	Total Deliveries		
				1951-52	1950-51	5-year Average 1946-47 to 1950-51
	bu.	bu.	bu.	bu.	bu.	bu.
Country Elevators.....	43,981,436	272,461,933	130,697,124	447,140,493	362,860,582	309,058,400
Interior Private and Mill Elevators.....	1,043,763	3,075,817	1,947,422	6,067,002	3,974,856	2,910,726
Interior Terminal Elevators (Street Receipts).....	2,018	1,756	23,128	26,902	110,050	32,823
Loaded over Platforms.....	199,947	243,408	98,697	542,052	454,382	420,784
From farms direct to U.S.A. by truck ¹	16,152	3,376	660	20,188	53,863	23,398
Totals.....	45,243,316	275,786,290	132,767,031	453,796,637	367,453,733	312,446,131
Production (Gross).....	52,000,000	325,000,000	154,525,000	531,525,000 ²	429,418,000 ³	370,364,200 ³
Percentage Deliveries to Production ²	88.90	86.70	87.79	87.23	87.70	86.67

¹ Dominion Bureau of Statistics—customs clearances.² Calculated on a net production basis.³ Includes production figures for British Columbia.

Lake Transportation

The S.S. *Scott Misener* arrived at the lakehead at 10:20 a.m. on April 3, 1952, to open the 1952 season of navigation at the head of the lakes. This date represents the third earliest opening on records extending back to 1918. The final grain vessel of the 1952 season, the S.S. *Mohawk Deer*, cleared Fort William-Port Arthur at 4 p.m. on December 18th.

Vessel clearances from the Twin Cities during the 1952 season of navigation totalled 450.8 million bushels of the five principal grains for the third heaviest shipping volume in the history of the lakehead terminals. The all-time record lake movement was established in 1945 when 483.7 million bushels were loaded to vessels from grain elevators at Fort William-Port Arthur.

Lake wheat cargoes during the current season of navigation amounted to 246.1 million bushels, representing a gain over 1951 of approximately 44.7 millions. During the record season of 1945 a total of 344.4 million bushels of wheat were carried by lake vessels from Fort William-Port Arthur, but over the past five years wheat shipments have fluctuated around an average yearly movement of 160.0 million bushels.

Combined lake and rail shipments from the terminals at the head of the lakes for the 1951-52 crop year totalled 475.1 million bushels of which 54.6 millions moved eastward by rail.

Freight Rates

The current season of navigation opened with lake freight rates on the movement of wheat from lakehead terminals ruling 5·5c. to 16c. per bushel over the Georgian Bay to Lower St. Lawrence ports range, unchanged from charges prevailing during 1951, and remained at that level throughout the 1952 season with exception of the adjustment permitted for December loadings of a 2c. per bushel maximum allowable increase.

Weighted Average of Lake Freight Rates for Wheat Cargoes Season of Navigation 1952

Fort William-Port Arthur to:	April to November	December	Average for Season 1952	Average for Season 1951
	cents per bushel			
Georgian Bay Ports.....	5·50	6·692	5·622	5·595
Port Colborne-Humberstone.....	7·50	8·556	7·532	7·541
Toronto.....	8·00	—	8·00	8·00
Kingston.....	8·75	—	8·75	—
Prescott.....	9·00	—	9·00	9·00
St. Lawrence Ports.....	16·00	—	16·00	16·00

The rate on wheat cargoes to Buffalo for the season (8·956c. Canadian) reflected a slight drop from the weighted average rate for 1951. Wheat freight rate charges to Duluth were quoted at 5c. to 5·5c. according to shipping date. A limited number of cargoes moved to Chicago at 7·5c. and 9c. and to Oswego at 11c. and 11·25c.

Inland Water Freight Rates Act

In accordance with provisions of the "Inland Water Freight Rates Act, 1923", as amended, copies of vessel charter confirmations for all lake grain cargoes shipped from the lakehead during the 1952 season of navigation, were filed by shippers with this office.

Monthly statements of weighted lake freight rate averages have been prepared from charter confirmation returns for release to those interested in these statistics.

Export Clearances

Canadian wheat and wheat flour exports for the 1951-52 crop year amounting to 356 million bushels were 115 millions above foreign shipments during the previous season (240·9 millions) and approximately 129 millions heavier than the average clearances over the five-year period 1946-47 to 1950-51. These wheat exports were the second highest on record, although still substantially below the 407·6 million bushels of wheat and wheat flour established as an all time record export volume in 1928-29.

The wheat flour portion of these exports, amounting to 51·1 millions (wheat equivalent), reflected a 4·8 million bushel decline from last year's returns, and a noticeable drop in the percentage of total wheat and wheat flour moving in flour form, which this year stood at 14·4% against the 1950-51 level of 23·2%.

Canadian Atlantic Seaboard ports handled approximately 56·8% of the total ocean wheat tonnage for the 1951-52 crop season, with vessel cargoes from Canadian Pacific ports accounting for 38·8% of the total traffic. The port of Churchill exceeded all previous records by loading out 7·5 million bushels which represented 2·8% of total Canadian overseas wheat cargoes. Export shipments clearing from U.S. Atlantic Seaboard ports moved up to the highest level of the past three years (3·9 millions—1·6%).

Further Canadian grain export data are contained in tables Appended to the this report.

Insurance

Insurance policies on in-store grain have been filed by public country, semi-public and Eastern elevators with this office as provided under Section 102 of The Canada Grain Act, 1930, as amended, and related Orders-in-Council and regulations. Certified policy copies of certified listings have been examined to ascertain that they conform to the required protection for owners of stored grains.

Prices

In compliance with Section 21 of The Canada Grain Act, 1930, as amended, grain price records for the principal grain markets were maintained in this office, and weekly, monthly and annual statements covering price statistics of interest to the trade have been released throughout the year.

Annual Weigh-over

All audit statements required in connection with the weigh-over during the year of grain in terminal and Eastern elevators by the Inspection and Weighing Departments of the Board, under authority of Sections 138 and 138A of the Canada Grain Act, 1930, as amended, have been compiled and submitted to the Board.

General

The staff of the Statistics Branch was strengthened by the appointment of an Assistant Statistician in March of 1952.

In July, 1952, the Board issued instructions that the Statistics Branch was to be transferred from Fort William to Winnipeg. Preliminary arrangements have been completed and this transfer will be effected in January of 1953.

It is with regret that we record the passing in March of 1952 of Mr. E. A. Ursell, one of the original members of this Branch and for 29 years Statistician to the Board.

Respectfully submitted,

E. E. BAXTER,

Chief Statistician.

Table H-1.—July 31 Carry-Over of Canadian Wheat, 1950 to 1952

	1950	1951	1952
	bu.	bu.	bu.
On Farms—Estimated.....	12,389,000	22,260,000	19,262,000
In Country, Private Terminal, and Mill Elevators.....	28,520,704	82,834,693	99,885,867
In Public and Semi-Public Elevators.....	29,968,821	48,006,907	28,018,842
In Store and Afloat Eastern Elevators.....	31,419,680	17,698,467	42,114,122
In Eastern Flour Mills.....	1,602,485	1,990,847	1,638,000
In Transit Rail—East and West.....	8,298,853	14,398,649	19,812,200
In Store and In Transit in the United States.....	—	2,013,104	2,243,653
Totals.....	112,199,543	189,202,667	212,974,714

Table H-2.—Supply and Disposition of Canadian Grain, Crop Year 1951-52

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Carry-over at Aug. 1, 1951.....	189,202,667	95,177,487	53,496,371	3,298,681	1,203,778
Production.....	552,657,000	488,191,000	245,218,000	17,647,000	9,897,000
Total Supply.....	741,859,667	583,368,487	298,714,371	20,945,681	11,100,778
Total Disposition.....	528,884,953	478,472,125	221,776,044	13,269,145	8,666,227
Carry-over at July 31, 1952.....	212,974,714	104,896,362	76,938,327	7,676,536	2,434,551

Table H-3.—Exports of Canadian Grain and Grain Products, Crop Years 1950-51 and 1951-52

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Crop Year 1951-52.....	304,721,956	69,579,045	69,915,314	6,819,536	2,881,803
Wheatflour, Oatmeal, etc., equivalent to.....	51,103,296	1,067,339	—	—	—
Totals.....	355,825,252	70,646,384	69,915,314	6,819,536	2,881,803
Crop Year 1950-51.....	185,039,364	34,717,707	23,075,989	9,367,374	4,131,129
Wheatflour, Oatmeal etc., equivalent to.....	55,921,482	679,406	—	—	—
Totals.....	240,960,846	35,397,113	23,075,989	9,367,374	4,131,129

Table H-4.—Production, Producers' Marketings, and Inspections of Grain in Western Canada, by Provinces, Crop Year 1951-52

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Production—1					
Manitoba.....	52,000,000	58,000,000	56,000,000	835,000	5,000,000
Saskatchewan.....	325,000,000	148,000,000	73,000,000	9,800,000	2,300,000
Alberta and British Columbia...	154,525,000	138,738,000	106,284,000	5,405,000	1,637,000
Totals.....	531,525,000	344,738,000	235,284,000	16,040,000	8,937,000

Table H-4.—Production, Producers' Marketings, and Inspections of Grain in Western Canada, by Provinces, Crop Year 1951-52—concluded

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Producers' Marketings at: ²					
Country Elevators— ³					
Manitoba.....	43,981,436	24,198,218	35,725,997	738,389	3,262,707
Saskatchewan.....	272,461,933	63,443,239	46,438,485	6,957,130	1,816,726
Alberta.....	130,697,124	41,351,825	45,047,921	3,674,956	984,624
Totals.....	447,140,493	128,993,282	127,212,403	11,370,475	6,064,057
Loaded over Platforms—					
Manitoba.....	199,947	88,137	143,382	—	4,818
Saskatchewan.....	243,408	46,709	76,690	6,422	13,270
Alberta.....	98,697	88,875	47,368	3,535	1,373
Totals.....	542,052	233,721	267,440	9,957	19,461
Interior Public and Semi-Public Terminals—					
Manitoba.....	2,018	6,991	12,995	94	—
Saskatchewan.....	1,756	—	—	—	—
Alberta.....	23,128	291,118	141,709	3,516	4,405
Totals.....	26,902	298,109	154,704	3,610	4,405
Interior Private and Mill Elevators—³					
Manitoba.....	1,043,763	181,724	55,703	—	192,216
Saskatchewan.....	3,075,817	406,459	204,483	23,443	23,263
Alberta.....	1,947,422	619,938	175,513	93,817	94,845
Totals.....	6,067,002	1,208,121	435,699	117,260	310,324
Trucked from Farms into United States—⁴					
Manitoba.....	16,152	33	50	—	—
Saskatchewan.....	3,376	—	4,251	—	—
Alberta.....	660	3,263	2,366	108	—
Totals.....	20,188	3,296	6,667	108	—
Total Producers' Marketings—					
Manitoba.....	45,243,316	24,475,103	35,938,127	738,483	3,459,741
Saskatchewan.....	275,786,290	63,896,407	46,723,909	6,986,995	1,853,259
Alberta.....	132,767,031	42,355,019	45,414,877	3,775,932	1,085,247
Totals.....	453,796,637	130,726,529	128,076,913	11,501,410	6,398,247
Inspections of Grain Grown in—⁵					
Manitoba.....	45,412,454	23,618,372	34,635,598	668,307	2,900,777
Saskatchewan.....	265,716,939	67,151,461	46,066,076	5,999,872	1,994,640
Alberta and British Columbia.....	110,368,344	24,832,558	28,128,435	2,548,596	644,267
Totals.....	421,497,737	115,602,391	108,830,109	9,216,775	5,539,684

¹ Gross production estimates by Dominion Bureau of Statistics.² Points in Ontario west of Fort William are included in Manitoba figures; country points in the Peace River valley situated in British Columbia are included in Alberta figures.³ Subject to revision.⁴ Customs returns, Dominion Bureau of Statistics.⁵ Cars inspected converted to bushels, using the average net bushel out-turn per car inspected for each grain.**Table H-5.—Primary Receipts and Shipments of Canadian Grain at Eastern Elevators, Crop Year 1951-52**

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Receipts.....	239,051,338	35,834,711	69,186,696	4,422,562	4,857,827
Shipments.....	214,956,738	35,756,959	64,962,216	4,259,648	4,586,116
	Corn	Beans	Buckwheat	Peas	Mixed Grain
	bu.	bu.	bu.	bu.	lb.
Receipts.....	2,920,823	756,966	253,939	—	1,741,790
Shipments.....	2,701,747	404,431	258,799	—	1,259,830

Table H-6.—Receipts and Shipments of United States Grain at Eastern Elevators, Crop Year 1951-52

—	Wheat	Oats	Barley	Flaxseed	Corn	Beans
	bu.	bu.	bu.	bu.	bu.	bu.
Receipts.....	18,674	—	—	457,485	3,585,374	162,193
Shipments.....	460,932	36,299	1,649,820	626,985	4,202,145	173,595

Table H-7.—Shipments of Foreign Grain from Canadian Elevators into Canadian Consumptive Channels, Crop Year 1951-52

—	United States						
	Wheat	Oats	Barley	Rye	Flaxseed	Corn	Beans
	bu.	bu.	bu.	bu.	bu.	bu.	bu.
Ex. Eastern Elevators.....	107	—	154	—	626,985	3,260,811	153,193
Fort William-Port Arthur.....	—	—	—	—	—	24,900	—
Interior Terminals.....	—	—	—	—	—	6,637	—
Interior Private and Mill Elevators.....	—	—	—	19,468	—	461,751	—
Pacific Coast Elevators.....	—	—	—	—	—	94,924	—

Table H-8.—Primary Receipts and Shipments of Canadian Grain at Terminal Elevators, Crop Year 1951-52

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Fort William-Port Arthur—					
Receipts.....	250,591,909	98,926,843	89,248,883	9,081,014	5,377,539
Shipments.....	267,681,022	104,130,692	91,336,172	7,047,731	4,933,434
Vancouver-New Westminster—					
Receipts.....	106,647,968	4,616,158	6,420,683	1,938	65
Shipments.....	102,341,761	4,644,189	5,847,487	2,130	489
Victoria—					
Receipts.....	—	—	—	—	—
Shipments.....	—	—	—	—	—
Prince Rupert—					
Receipts.....	2,636,337	85	3,956,552	—	—
Shipments.....	2,625,489	2,085	3,500,431	—	—
Churchill—					
Receipts.....	7,353,701	332	—	—	90
Shipments.....	7,545,444	22,832	—	—	—
North Transcona—					
Receipts.....	836,979	75,442	83,532	12,629	7,905
Shipments.....	364,408	102,430	82,430	12,629	8,421
Kenora—					
Receipts.....	234,178	120	—	—	—
Shipments.....	10,884	—	—	—	—

Table H-9.—Receipts and Shipments of Canadian Grain at Canadian Government Interior Terminal Elevators, Crop Year 1951-52

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Receipts—					
Calgary.....	2,465,471	20,466	1,389,808	4,741	—
Edmonton.....	3,263,931	310,054	155,201	—	5,509
Lethbridge.....	1,033,212	—	12,078	3,516	—
Moose Jaw.....	2,664,824	2,165	12,814	3,107	716
Saskatoon.....	2,985,461	934	9,245	—	—
Totals.....	12,412,899	333,619	1,579,146	11,364	6,225
Shipments—					
Calgary.....	2,564,999	20,326	1,323,217	34,668	—
Edmonton.....	3,796,155	318,554	157,855	—	4,550
Lethbridge.....	924,454	—	11,961	3,215	—
Moose Jaw.....	4,938,176	2,632	12,352	3,107	716
Saskatoon.....	4,900,582	383	7,814	—	—
Totals.....	17,124,366	341,895	1,513,199	40,990	5,266

Table H-10.—Receipts and Shipments of Canadian Grain at Duluth-Superior,¹ Crop Year 1951-52

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Receipts.....	6,239,921	1,621,882	1,899,059	—	—
Shipments.....	6,767,191	1,451,718	1,899,059	—	—

¹ Includes duty-paid imports but does not include Canadian Wheat shipped to Duluth-Superior for drying in bond.

Table II-11.—Exports of Canadian Wheat, by Seaboard Sectors, by Months, Crop Year 1951-52

Month	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via Port William- Port Arthur Direct	Via United States Atlantic Ports	United States Imports ¹		Total All Wheat	Wheat Flour ²	Total Wheat and Wheat Flour
						For Domestic Use	Milling in Bond			
	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
1951										
August.....	6,488,058	8,067,908	2,310,625	—	54,415	2,240,001	—	19,161,007	2,581,308	21,742,315
September.....	3,402,511	7,962,720	4,569,648	—	791,039	2,304,075	72,417	19,102,410	3,151,026	22,253,436
October.....	6,830,084	16,534,524	398,170	—	1,400	3,278,583	551,662	27,594,423	3,850,744	31,445,167
November.....	8,086,632	21,743,518	—	—	—	4,323,275	1,363,340	35,516,765	4,033,431	39,550,196
December.....	7,048,670	4,737,105	—	—	289,333	3,780,799	920,108	16,776,015	3,682,962	20,458,977
1952										
January.....	10,139,397	4,242,846	—	—	—	1,598,437	22,000	16,002,680	3,406,766	19,409,446
February.....	10,126,648	4,454,993	—	—	1,428,345	2,158,286	415,991	18,584,263	4,179,564	22,763,827
March.....	9,272,513	6,034,619	—	—	568,656	1,215,323	—	17,091,111	5,353,506	22,444,617
April.....	11,159,874	5,114,787	—	—	382,294	2,418,678	923,043	19,998,676	4,388,539	24,387,215
May.....	10,131,920	25,061,004	—	53,886	303,388	2,199,987	524,842	38,275,027	5,734,625	44,009,652
June.....	10,455,105	23,149,951	—	61,975	103,008	2,498,508	2,055,568	38,324,115	6,101,397	44,425,512
July.....	10,042,693	24,104,582	267,000	—	63,282	3,339,316	478,591	38,295,464	4,639,428	42,934,892
Totals Crop Year 1951-52.....	103,184,105	151,298,557	7,545,443	115,861	3,985,160	31,355,298	7,327,562	334,721,956	51,103,296	385,825,252
Totals Crop Year 1950-51.....	64,789,205	91,478,256	6,767,743	118,589	1,582,202	14,841,533	5,461,836	185,039,364	55,921,482	240,960,846
5-year Average 1946-47 to 1950-51.....	55,716,998	92,233,178	5,102,848	63,543	7,838,016	3,752,067	4,418,271	169,154,921	58,128,596	227,283,517

¹ Compiled from returns of Canadian elevator licensees and shippers and advice from American grain correspondents.² Canadian Customs Returns, published by the Dominion Bureau of Statistics, adjusted to remove effect of time lag in returns made by the Customs.

Table H-12.—Overseas Exports of Canadian Grain, by Seaboard Sectors, by Grades, Crop Year 1951-52

Grades	Via Canadian Pacific Ports	Via ¹ Canadian St. Lawrence- Atlantic Ports	Via United States Atlantic Ports	Total
	bu.	bu.	bu.	bu.
Wheat—				
1 Manitoba Northern.....	1,837,163	172,171	1,400	2,010,734
2 Manitoba Northern.....	8,276,287	5,573,573	75,505	13,925,365
3 Manitoba Northern.....	39,659,446	24,172,190	401,569	64,233,205
4 Manitoba Northern.....	38,819,770	30,483,588	65,819	69,369,177
No. 5.....	7,683,025	38,344,157	2,215,717	48,242,899
No. 6.....	388,267	6,242,065	7,181	6,637,513
Feed.....	98,821	93,174	—	191,995
Tough 2 Manitoba Northern.....	111,066	536,490	—	647,556
Tough 3 Manitoba Northern.....	1,657,354	29,741,169	3,489	31,402,012
Tough 4 Manitoba Northern.....	1,800,803	11,723,472	—	13,524,275
Tough No. 5.....	649,600	2,903	—	652,503
3 C.W. Garnet.....	158,578	—	—	158,578
3 C.W. Garnet.....	1,578,959	—	—	1,578,959
Tf. 2 C.W. Garnet.....	—	33,000	—	33,000
Tf. 3 C.W. Garnet.....	—	64,941	—	64,941
1 Alberta Red Winter.....	98,299	—	—	98,299
2 Alberta Winter.....	307,307	—	—	307,307
3 Alberta Winter.....	59,360	—	—	59,360
Other Western.....	—	244,862	—	244,862
Eastern.....	—	2,313,529	50,202	2,363,731
2 C.W. Amber Durum.....	—	26,003	—	26,003
3 C.W. Amber Durum.....	—	5,169,888	1,164,278	6,334,166
4 C.W. Amber Durum.....	—	3,785,640	—	3,785,640
Tf. 4 C.W. Amber Durum.....	—	147,046	—	147,046
Totals.....	103,184,105	158,869,861	3,985,160	266,039,12
Oats—				
2 C.W.....	—	23,137	—	23,137
Ex. 3 C.W.....	—	152,678	195,085	347,763
3 C.W.....	—	2,082,121	—	2,082,121
Ex. 1 Feed.....	79,383	19,996	118,392	217,771
1 Feed.....	950,847	4,805,366	1,016,094	6,772,307
3 Feed.....	—	30,249	—	30,249
Mixed Feed.....	588	668,401	—	668,989
Tf. Ex. 1 Feed.....	—	—	103,255	103,255
Tf. 1 Feed.....	79,059	13,172	—	92,231
Other Western.....	—	72,386	—	72,386
Eastern.....	—	595,326	—	595,326
Totals.....	1,109,877	8,462,832	1,432,826	11,005,535
Barley—				
3 C.W. Six-Row.....	14,079	6,453,221	483,224	6,950,524
4 C.W. Six-Row.....	2,297	—	—	2,297
2 C.W. Two-Row.....	—	7,660	—	7,660
3 C.W. Two-Row.....	26,678	1,440,915	—	1,467,593
1 Feed.....	8,108,748	26,124,756	144,783	34,378,287
2 Feed.....	895,737	6,264,737	25,413	7,185,887
3 Feed.....	12,081	1,263,444	—	1,275,525
Tough 3 C.W. Six-Row.....	—	130,338	—	130,338
Tough 2 C.W. Two-Row.....	—	8,746	—	8,746
Tough 3 C.W. Two-Row.....	—	76,947	—	76,947
Tf. 1 Feed.....	2,297	5,967,523	13,551	5,983,371
Tf. 2 Feed.....	—	1,778,251	49,995	1,828,246
Other Western.....	55,699	328,756	—	384,455
Eastern.....	—	14,985	—	14,985
Totals.....	9,117,616	49,860,279	716,966	59,694,861
Rye—				
2 C.W.....	—	2,156,513	576,225	2,732,738
3 C.W.....	—	1,522,823	277,834	1,800,657
Totals.....	—	3,679,336	854,059	4,533,395
Flaxseed				
1 C.W.....	71	2,216,873	—	2,216,944
2 C.W.....	—	613,571	—	613,571
3 C.W.....	—	30,223	—	30,223
Other Western.....	—	20,820	—	20,820
Totals.....	71	2,881,487	—	2,881,558

¹ Includes clearances via the Port of Churchill and via Fort William-Port Arthur direct.

Table H-13.—Overseas Exports of Canadian Grain, by Ports, Crop Year 1951-52

Loaded at	Wheat	Oats	Barley	Rye	Flaxseed	Grand Total All Grains
	bu.	bu.	bu.	bu.	bu.	bu.
Vancouver-New Westminster.....	100,558,616	1,109,877	5,617,185	—	71	107,285,749
Victoria.....	—	—	—	—	—	—
Prince Rupert.....	2,625,489	—	3,500,431	—	—	6,125,920
Montreal.....	87,800,686	5,393,312	31,021,436	3,226,497	2,383,302	129,825,233
Sorel.....	11,442,782	252,762	7,404,093	452,839	—	19,552,476
Three Rivers.....	15,666,367	—	—	—	—	15,666,367
Quebec.....	17,348,748	2,433,217	6,529,165	—	—	26,311,130
St. John.....	1,051,832	—	—	—	—	1,051,832
West Saint John.....	10,091,758	363,549	2,765,468	—	450,705	13,671,480
Halifax.....	7,806,384	19,992	2,140,117	—	47,480	10,013,973
Churchill.....	7,545,443	—	—	—	—	7,545,443
Fort William-Port Arthur (Direct).....	115,861	—	—	—	—	115,861
Totals—Canadian Ports.....	262,053,966	9,572,709	58,977,895	3,679,336	2,881,558	337,165,464
Albany.....	788,071	1,133,741	—	—	—	1,921,812
Baltimore.....	700,765	143,490	—	617,317	—	1,461,572
Boston.....	2,077,491	—	716,966	—	—	2,794,457
New York.....	3,800	—	—	—	—	3,800
Norfolk.....	—	—	—	174,484	—	174,484
Philadelphia.....	415,033	155,595	—	62,258	—	632,886
Totals—U.S.A. Ports.....	3,985,160	1,432,826	716,966	854,059	—	6,989,011
Totals to Overseas.....	266,039,126	11,005,535	59,694,861	4,533,395	2,881,558	344,154,475
Wheat Flour ¹	51,103,296	—	—	—	—	51,103,296
Rollod Oats and Oatmeal ²	—	1,067,339	—	—	—	1,067,339
U.S.A. Imports ³	38,682,830	58,573,510	10,220,454	2,286,141	245	109,763,180
Grand Totals.....	355,825,252	70,646,384	69,915,315	6,819,536	2,881,803	506,088,290

¹ Canadian Customs returns, converted to bushels, adjusted to remove effect of time lag in reports made by the Customs.

² Canadian Customs returns converted to bushels.

³ Compiled from returns of Canadian Elevator licensees and shippers and advice from American grain correspondents.

Table H-14.—Weighted Average Lake Freight Rates on Canadian Grain from Fort William-Port Arthur, Season of Navigation 1952

Port of Discharge	Wheat	Oats	Barley	Rye	Flaxseed
	cents per bushel				
Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	5-622	5-022	5-369	5-55	—
Humberstone.....	7-555	6-75	7-25	7-50	—
Port Colborne.....	7-527	6-776	7-258	7-50	—
Toronto.....	8-00	7-25	7-50	—	8-037
Kingston.....	8-75	8-00	8-25	8-75	—
Prescott.....	9-00	8-25	8-435	—	—
Montreal.....	16-00	12-541	15-25	16-00	18-876
Montreal via Humberstone.....	16-00	12-50	15-25	—	—
Montreal via Port Colborne.....	16-00	12-50	15-25	16-00	18-00
Montreal via Toronto.....	16-00	—	15-25	—	—
Montreal via Kingston.....	16-00	12-50	15-25	16-00	18-00
Montreal via Prescott.....	16-00	12-50	15-25	16-00	18-00
Sorel.....	16-00	13-05	15-25	—	—
Sorel via Port Colborne.....	16-00	—	15-25	16-00	—
Sorel via Kingston.....	—	—	15-25	—	—
Sorel via Prescott.....	16-00	—	15-25	—	—
Three Rivers.....	16-00	—	15-25	—	—
Three Rivers via Port Colborne.....	16-00	—	15-25	—	—
Three Rivers via Toronto.....	16-00	—	—	—	—
Quebec.....	16-00	12-995	15-25	—	—
Quebec via Prescott.....	16-00	—	15-25	—	—
Buffalo.....	8-956	6-379	8-101	8-716	—
Chicago.....	8-296	6-506	—	8-856	—
Detroit.....	6-854	—	8-008	—	—
Duluth-Superior.....	5-221	2-921	5-583	6-257	—
Erie.....	9-00	—	—	—	—
Huron.....	7-595	5-579	—	—	—
Manitowoc.....	—	5-025	9-00	—	—
Milwaukee.....	9-50	7-025	8-208	9-00	—
Oswego.....	11-131	8-00	—	—	—
Toledo.....	—	7-937	—	—	—

NOTE.—Rates originally quoted in American Funds have been converted at the prevailing rates of exchange.

Table H-15.—Monthly Average Fixed Western Grain Prices and Open Market Closing Cash Quotations, Crop Year 1951-52

Table H-19.—Monthly Average Cash Prices																		
Grain and Grade	1951					1952												Yearly Average
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July						
CENTS AND EIGHTHS PER BUSHEL																		
CANADIAN WHEAT BOARD CASH PRICES																		
WHEAT—1																		
Initial Payment to Producers:																		
1951-52 Pool—																		
1 Hard.....	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
2 Northern.....	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157
3 Northern.....	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154
4 Northern.....	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146
Number 5 Wheat.....	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136
Number 6 Wheat.....	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126
Feed Wheat.....	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Domestic and Export ²																		
(International Wheat Agreement)—																		
1 Hard.....	190	190	189/2	187/7	184/5	180/7	180/2	179/3	176/5	177/1	176/2	174/4	182/2	174/4	176/2	171/4	170/2	182/2
2 Northern.....	188	188	187/2	185/7	182/5	178/7	180/2	177/3	174/5	177/1	176/2	172/4	180/2	172/4	176/2	171/4	170/2	182/2
3 Northern.....	186	186	185/2	183/7	180/5	176/7	176/2	175/2	172/5	173/1	172/2	170/4	178/2	170/4	172/2	170/4	172/2	178/2
4 Northern.....	182	179/2	179	177/7	174/5	170/7	170/2	169/3	166/5	167/1	166/2	164/4	172/2	164/4	166/2	164/4	166/2	172/2
Number 5 Wheat.....	170/3	168	166/2	171/3	170/5	167/6	167/2	166/2	163/5	162/1	161/2	158/3	166/2	158/3	161/2	158/3	161/2	166/2
Number 6 Wheat.....	154	154/6	154/5	160/7	159/5	156/3	157/2	156/3	153/5	152/1	151/2	147/5	149/2	145/4	148/1	147/5	145/4	155/4
Feed Wheat.....	146/6	147	148/4	154/7	153/5	150/3	151/2	150/2	147/5	148/1	147/5	145/4	149/2	145/4	148/1	147/5	145/4	155/4
1 C.W. Garnet.....	187	187	186/2	185/3	182/5	178/7	177/2	176/2	173/5	174/1	173/2	171/4	178/7	171/4	173/2	171/4	170/2	178/7
2 C.W. Garnet.....	186	186	185/2	184/3	181/5	177/7	177/2	176/2	173/5	174/1	173/2	171/4	178/7	171/4	173/2	171/4	170/2	178/7
3 C.W. Garnet.....	182	182	181/2	180/7	178/5	174/7	174/2	173/2	170/5	171/1	170/2	168/4	182/2	168/4	170/2	168/4	170/2	182/2
1 Alberta Red Winter.....	190	188	187/2	185/7	182/5	178/7	178/2	177/2	174/5	177/1	176/2	174/4	182/2	174/4	176/2	174/4	176/2	182/2
2 Alberta Winter.....	183	183	182/2	182/4	180/5	176/7	176/2	175/2	172/5	173/1	172/2	170/4	178/2	170/4	172/2	170/4	172/2	178/2
3 Alberta Winter.....	180	180	180/2	179/2	178/2	177/2	176/2	175/2	174/2	173/2	172/2	171/2	170/2	170/2	170/2	170/2	170/2	170/2
1 C.W. Amber Durum.....	189	188	187/2	185/7	182/5	178/7	178/2	177/2	174/5	177/1	176/2	174/4	182/2	174/4	176/2	174/4	176/2	182/2
2 C.W. Amber Durum.....	188	188	187/2	185/7	182/5	178/7	178/2	177/2	174/5	177/1	176/2	174/4	182/2	174/4	176/2	174/4	176/2	182/2
3 C.W. Amber Durum.....	186	186	185/2	184/5	181/5	177/7	177/2	176/2	173/5	174/1	173/2	171/4	178/7	171/4	173/2	171/4	170/2	178/7
Export—Class 2—																		
1 Hard.....	236	240	239/6	242/7	244	241/7	240	230/6	226/5	227/1	217/1	211/2	233/1	211/2	217/1	211/2	213/4	233/1
2 Northern.....	236	240	239/6	242/7	244	241/7	240	230/6	226/5	227/1	217/1	211/2	233/1	211/2	217/1	211/2	213/4	233/1
3 Northern.....	234	238	237/6	240/7	242	239/7	238	228/6	224/5	225/1	215/1	209/2	231/1	209/2	215/1	209/2	213/4	231/1
4 Northern.....	228	236	235/6	238/7	240	237/7	236	226/6	222/5	223/1	211/2	205/2	228/1	205/2	211/2	205/2	213/4	228/1
Number 5 Wheat.....	185/3	174	172/2	177/3	176/5	173/6	173/2	169/5	165/5	168/1	167/2	164/3	172/7	164/3	167/2	164/3	167/2	172/7
Number 6 Wheat.....	160	160/6	160/5	166/7	165/5	162/3	163/2	162/2	159/5	160/1	158/2	157/4	161/4	158/2	160/1	158/2	157/4	161/4
Feed Wheat.....	152/6	153	154/4	150/7	159/5	156/3	157/2	156/2	153/5	154/1	153/2	151/4	155/2	153/2	154/1	153/2	151/4	155/2

OATS—3												
Initial Payment to Producers:												
1951-52 Pool—												
2 C.W.												
Ex. 3 C.W.												
3 C.W.												
Ex. 1 Feed.....												
1 Feed.....												
2 Feed.....												
3 Feed.....												
Domestic and Export—4												
2 C.W.												
Ex. 3 C.W.												
3 C.W.												
Ex. 1 Feed.....												
1 Feed.....												
2 Feed.....												
3 Feed.....												
236	240	239/6	242/7	244	241/7	241	236/4	233/5	234/1	224/1	218/2	236
234	238	237/6	240/7	242	239/7	239	233/4	231/5	232/1	222/1	215/2	234
232	236	235/6	239/5	241	238/7	233/7	234/4	230/5	231/1	221/1	210/2	232/3
1 C.W. Amber Durum.....	65	65	65	65	65	65	65	65	65	65	65	65
2 C.W. Amber Durum.....	62	62	62	62	62	62	62	62	62	62	62	62
3 C.W. Amber Durum.....	62	62	62	62	62	62	62	62	62	62	62	62
Ex. 1 Feed.....	60	60	60	60	60	60	60	60	60	60	60	60
1 Feed.....	53	53	53	53	53	53	53	53	53	53	53	53
2 Feed.....	48	48	48	48	48	48	48	48	48	48	48	48
3 Feed.....	83/1	86/7	108/4	99/7	96	93/2	97/1	91/6	80/3	79/6	81/3	91/1
2 C.W.	81/3	86/2	108/4	99/2	95	92/2	96/1	90/6	78/7	77/4	78/6	90
Ex. 3 C.W.	80/6	85/7	107/7	98/1	93	90/2	94/1	87/3	76/1	76/5	78/2	88/3
3 C.W.	80/7	85/7	107/6	98/1	93	89/7	92/7	86/5	76/2	76/2	78	88/3
Ex. 1 Feed.....	88	88	103/3	94/5	91/4	88/3	91/4	84/4	74/4	74/4	75/6	85/5
1 Feed.....	78/5	82	103/3	94/5	91/4	88/3	91/4	84/4	71/1	71/3	72/7	82/5
2 Feed.....	75/1	78/5	100/3	92/1	88/4	85/3	88	81/4	71/1	71/3	72/7	82/5
3 Feed.....	72/1	75/5	97/3	89/1	85/4	82/3	85	78/6	69/1	69/3	70	79/6
BARLEY—3												
Initial Payment to Producers:												
1951-52 Pool—												
1 C.W. Six-Row.....												
2 C.W. Six-Row.....												
1 C.W. Two-Row.....												
2 C.W. Two-Row.....												
3 C.W. Six-Row.....												
2 C.W. Yellow.....												
3 C.W. Yellow.....												
4 C.W. Six-Row.....												
3 C.W. Two-Row.....												
1 Feed.....												
2 Feed.....												
3 Feed.....												
Domestic and Export—4												
1 C.W. Six-Row.....												
2 C.W. Six-Row.....												
1 C.W. Two-Row.....												
2 C.W. Two-Row.....												
3 C.W. Six-Row.....												
2 C.W. Yellow.....												
3 C.W. Yellow.....												
4 C.W. Six-Row.....												
3 C.W. Two-Row.....												
1 Feed.....												
2 Feed.....												
3 Feed.....												
118	118	118	118	118	118	118	118	118	118	118	118	118
118	118	118	118	118	118	118	118	118	118	118	118	118
111	111	111	111	111	111	111	111	111	111	111	111	111
111	111	111	111	111	111	111	111	111	111	111	111	111
116	116	116	116	116	116	116	116	116	116	116	116	116
110	110	110	110	110	110	110	110	110	110	110	110	110
108	108	108	108	108	108	108	108	108	108	108	108	108
108	108	108	108	108	108	108	108	108	108	108	108	108
107	107	107	107	107	107	107	107	107	107	107	107	107
100	100	100	100	100	100	100	100	100	100	100	100	100
95	95	95	95	95	95	95	95	95	95	95	95	95
123/4	135/5	147/7	150	142/3	145/6	139/3	134/2	126/4	123/1	127/5	134	135/7
123/4	135/5	147/7	150	142/3	145/6	139/3	134/2	126/4	123/1	127/5	134	135/7
121/4	131/7	144/1	147	140	146/5	140/3	135/2	127/1	122/5	126/5	134	134/4
121/4	131/7	144/1	147	140	146/5	140/3	135/2	127/1	122/5	126/5	130/1	134/4
120/4	133/4	145/7	148	140	142/6	136/3	131/2	123/4	120/1	124/5	131	133/1
120/4	133/4	145/7	148	140	142/6	136/3	131/2	123/4	120/1	124/5	131	133/1
118/4	128	140/1	144/7	139	142/6	136/3	131/2	122/4	119/1	123/5	123/3	130/4
118/4	128	140/1	144/7	139	142/6	136/3	131/2	122/4	119/1	123/5	123/3	130/4
117/4	127/7	140/1	144/6	138/4	141	134/1	128	119/5	115/2	117/4	116/2	128/2
117	127/7	140/1	144/6	138/4	141	134/1	128	119/5	115/2	117/4	116/2	128/2
117	127/7	140/1	144/6	138/4	141	134/1	128	119/5	115/2	117/4	116/2	128/2
112	123/5	135/6	142/1	135/6	140/1	132/6	125/5	115/4	112/5	115/2	115/2	127/4
112	123/5	135/6	142/1	135/6	140/1	132/6	125/5	115/4	112/5	115/2	115/2	127/4
105/7	115/7	125/1	137/4	132/6	136/5	129	121/1	111/3	108	110/4	108/5	120/4

Table H-15.—Monthly Average Fixed Western Grain Prices and Open Market Closing Cash Quotations, Crop Year 1951-52—concluded

Grain and Grade	1951					1952					Yearly Average	
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May		June	July
WINNIPEG GRAIN EXCHANGE CASH QUOTATIONS—												
OATS—												
Domestic and Export—												
2 C.W.	82/6	86/5	94/5	107/7	99	95/4	92/5	97	91/5	80/1	79/3	80/5
Ex. 3 C.W.	81/1	86/1	94/3	107/7	97/6	94/4	91/5	96	90/5	77/6	76/7	78
3 C.W.	80/4	85/7	94/2	107/6	97	92/4	89/5	93/7	86/6	76	76/2	77/6
Ex. 1 Feed	80/4	85/7	94/2	107/6	97	92/4	89/5	92/5	86/1	76	75/7	77/5
1 Feed	78/1	81/6	88	103/1	94/1	91/2	87/6	90/4	84/1	74/2	74/2	75/4
2 Feed	74/5	78	84/3	99/2	91/2	88	84/7	87/3	80/4	70/3	70/7	72/4
3 Feed	71/5	75/1	81	95/2	88/2	85	81/7	84/1	77/7	68	68/5	69/2
cent and eighths per bushel												
BARLEY—												
Domestic and Export—												
1 C.W. Six-Row	122/4	129/7	143/4	148/1	140/3	142	135/2	131	124/1	121	124/4	129
2 C.W. Six-Row	122/4	129/7	143/4	148/1	140/3	142	135/2	131	124/1	121	124/4	129
1 C.W. Two-Row	120/4	127/7	141	143/4	138/7	142	135/2	131	124/1	121	124/4	127/5
2 C.W. Two-Row	120/4	127/7	141	143/4	138/7	142	135/2	131	124/1	121	124/4	127/5
3 C.W. Six-Row	119/4	126/7	141	143/4	138/7	141/3	134/2	130	122/2	118/7	123	126/3
2 C.W. Six-Row	119/4	126/7	141	143/4	138/7	141/3	134/2	130	122/2	118/6	120/3	126/3
3 C.W. Yellow	117/4	124/4	137/1	143/2	136/7	140/6	133/5	127/1	119	116/3	117/1	129/5
4 C.W. Yellow	115/2	123/1	136/2	143/2	136	140/4	133/5	127/1	115	115	117	127/5
3 C.W. Six-Row	115/2	123/1	136/2	143/2	136	140/4	133/5	127/1	118/7	114/3	116/7	126/5
1 Feed	115/2	122/6	135/4	143/2	136	140/4	133/5	127/1	118/7	114/3	116/7	126/5
2 Feed	111/3	118/4	131/4	141/5	135/2	139/5	131/7	124/1	115/2	112	114/6	113/4
3 Feed	105/5	115/1	127	136/6	131	135/5	126/4	117/4	110/5	107/2	109/6	108/1
R YE—												
Domestic, Export and Producers' Prices—												
2 C.W.	173/2	177/6	190	200/6	214/2	207/5	192/4	198	191/7	188/1	198/2	193/5
3 C.W.	168/4	172/6	185	195/6	209/2	202/5	187/4	193	187/1	184/1	193/2	185/7
4 C.W.	159/3	163/3	173/5	182/5	196/2	189/3	161	160/2	159/3	166	178/7	167/7
Ergoty	154/3	159/3	171/5	180/5	194/2	187/3	157/1	155/2	154/3	161	173/7	166/1
Rejected 2 C.W.	156/3	161/3	173/5	182/5	196/2	189/6	164/3	165/2	164/3	171	183/7	176
FLAXSEED—												
Domestic, Export and Producers' Prices—												
1 C.W.	407/4	422/5	451/4	484/2	491/6	484/4	452	420/4	363/3	378/4	392/1	389
2 C.W.	401/2	416/2	435/7	477/4	485/5	477/4	444/3	414/4	358/3	373/4	387/2	384
3 C.W.	347/5	361/6	372/3	423	430/7	425/1	393/6	362/6	313/1	329/2	352/2	361

¹ Basis in Store Fort William-Port Arthur or Vancouver.
² Plus 6 cents carrying charge.
³ Basis in Store Fort William-Port Arthur.
⁴ For Local Sales and for Spot Sales subject to confirmation.

Table H-16.—Tough and Damp Grain Dried at Different Points, 1951-52 Crop Year

LAKEHEAD

Grain	Artificial Drying			Natural Drying	Total
	Tough	Damp	Tough and Damp		
	bu.	bu.	bu.	bu.	bu.
Wheat.....	9,282,703	24,136,173	33,418,876	14,157,166	47,576,042
Durum.....	1,812,825	1,627,176	3,440,001	920,383	4,360,384
Oats.....	1,670,760	10,379,072	12,049,832	6,004,756	18,054,588
Barley.....	6,698,067	10,651,676	17,349,743	6,005,155	23,354,898
Rye.....	1,393,909	377,159	1,771,068	1,073,119	2,844,187
Flax.....	2,455,674	216,910	2,672,584	301,023	2,973,607
Totals.....	23,313,938	47,388,166	70,702,104	28,461,602	99,163,706

PACIFIC COAST

Wheat.....	23,065,329	2,255,422	25,320,751	14,851,917	40,172,668
Oats.....	161,968	3,918	165,886	363,736	529,622
Barley.....	872,157	70,264	942,421	1,036,843	1,979,264
Totals.....	24,099,454	2,329,604	26,429,058	16,252,496	42,681,554

INTERIOR

Wheat.....	2,321,732	7,121,481	9,443,213	1,487,334	10,930,547
Durum.....	—	2,005	2,005	—	2,005
Oats.....	6,813	12,648	19,461	—	19,461
Barley.....	2,642	16,846	19,488	187	19,675
Rye.....	—	3,516	3,516	—	3,516
Flax.....	1,865	3,644	5,509	—	5,509
Totals.....	2,333,052	7,160,140	9,493,192	1,487,521	10,980,713

OTHERS

Wheat—					
Churchill.....	—	31,714	31,714	72,957	104,671
Duluth Superior.....	—	8,288,727	8,288,727	—	8,288,727
Buffalo.....	—	6,081,863	6,081,863	—	6,081,863
Eastern Elevators.....	243,686	1,280,390	1,524,076	—	1,524,076
Grand Totals.....	49,990,130	72,560,604	122,550,734	46,274,576	168,825,310

APPENDIX I

Report of the Chief Chemist

WINNIPEG, Manitoba,
December 17, 1952.

Board of Grain Commissioners,
Winnipeg, Manitoba.

SIRS,—I have the honour to submit the following report on the Board's Research Laboratory for the year 1952.

Quality of 1952 Crops

The quality of 1952 crops of Western Canadian grain is characteristic of similar crops of record size and high grade. Bushel weight of wheat is well above the long-term average, but protein content is down by almost one per cent. In seasons of heavy crops the uptake of nitrogen from the soil is increased but there is a still greater production of starch. As a result, the ratio of protein to starch in the kernels is lowered; the grain is plump and of high bushel weight, but the percentage of protein is lowered.

The milling quality of 1952 wheat is excellent, and dough-handling properties and loaf characteristics are also good. On the other hand, loaf volumes reflect the lower protein contents, especially in lower grades. Macaroni-making quality of durum wheat is excellent, and the malting quality of barley may well prove to be the best on record. For malting purposes, low protein content is advantageous. The flax crop is about equal to last year's crop in oil content, but is slightly lower in iodine value. Since yields and grades are high for all crops, the present season represents a marked improvement over those of the past two years.

Drying of 1951 Crops

The 1951-52 crop year will be long remembered for the colossal effort required to dry the 1951 crop. For the Laboratory, as for many other organizations, this was the big project of the year. During the peak load, from five to eight members of the staff were engaged in this work for several months. Almost 3,000 extra milling and dough tests were made, about double the number usually made in one year.

Four aspects of this project merit comment: drying on farms, in Canadian terminals, in miscellaneous Canadian elevators, and in United States terminals.

When considerable numbers of farm driers were imported or built in the early months of 1952, a problem was created because of the difficulty of detecting damage to wheat through improper drying. Visual inspection is inadequate and a laboratory test must be used. With the co-operation of companies operating country elevators, the Laboratory offered a free testing service, designed to keep farm driers in correct operation. About 130 farm driers were thus serviced; the exact number is difficult to

determine because some driers were moved from one place to another. The Board also required that artificially dried wheat be identified by marking the bill of lading when the wheat was shipped. All carlots so marked were also tested by the Laboratory.

All farm driers, with the exception of one make, were operated satisfactorily by farmers, who must be complimented on the care they exercised in following instructions for the drying of wheat. The exception was a rotating drum drier designed for feed grains. The first of these machines was put into operation at Imperial, Saskatchewan, and the writer made two visits to that town within four days, to investigate the machine and to get the situation under control. Two other machines of the same make were imported into central Saskatchewan, and a fourth was found in southern Alberta. The comparatively small amount of wheat dried in these machines was kept segregated and graded "No. 5 Dried". These driers were subsequently used almost exclusively for feed grains.

In order to handle the extra work involved in controlling farm drying, the Laboratory was forced to devise a more rapid testing procedure. With ample experience and a skilled staff, this problem was solved in three days of intensive investigation. The procedure developed required only 6.5 minutes for milling and a 4.5-minute test of dough quality made with the "Mixograph".

Control of all other drying in Canada and the United States was undertaken in close co-operation with the Inspection Branch. Canadian terminals presented no special problems, since past practice was continued. Tests were made as each drier began to operate and were continued until it was shown that drying was satisfactory; periodic checks were made thereafter. Nor did drying operations in other elevators in Western and Eastern Canada present any difficulties other than the comparatively large number of tests required to control drying of a relatively small amount of wheat.

When drying was begun at Duluth and Superior, the Chief Grain Inspector and the writer inspected all driers. The writer and Mr. W. Beck, who took charge of inspection at Buffalo, also inspected all driers used for Canadian wheat in that city. Suggestions were made for improving temperature control, and for increasing uniformity of temperature, in certain driers. The writer also visited Duluth a second time when difficulty was experienced in bringing a new Shanzer drier into satisfactory operation; the difficulty was diagnosed and corrected. Control of these United States operations was hindered by the time required to transmit samples to Winnipeg for testing. A heavier testing program was thus required since laboratory work ran several days behind the drying operations. In addition, tests were made of all cargoes of dried wheat shipped from Duluth, Superior and Buffalo.

All parties concerned may justifiably take considerable pride in the outcome of these widespread and large-scale drying operations. Not a single complaint, on impairment of milling and baking quality through improper drying, has been received from any domestic or foreign purchaser of Canadian wheat.

Assistance to Inspection Branch

In addition to collaboration in the control of drying operations, the Laboratory continued to co-operate closely with the Inspection Branch in other ways. Assistance was provided in preparing information on the quality of tentative standard samples and tentative standard export samples for the meetings of the Committee on

Western Grain Standards held on October 3 and 31, 1952. Various individual samples were tested as an aid to grading. Two cargo samples, on which complaints were based, were subjected to comprehensive testing, but neither was found to be of inferior milling and baking quality. Supervision of equipment and technique for moisture testing was continued throughout the year.

Other Co-Operative Studies

The customary variety trials were continued for bread wheats, durum wheats, and barleys, in co-operation with other institutions working under the Associate Committees on Grain Research and Plant Breeding. The threat of the new race of stem rust, 15B, underlines the importance of this work.

The wet fall of 1951 caused much wheat to be left in the field (piled, in swath, or as standing grain) for spring threshing. In collaboration with the Universities of Alberta and Saskatchewan, opportunity was taken to make a survey of the comparative results of fall and spring threshing. Comparable sets of samples representing grain threshed dry in the fall, threshed damp in the fall and stored in granaries or in piles, and threshed in the spring after remaining in the field in swath or standing, were collected from about 100 farms. Results of this study indicated a clear advantage for fall threshing.

Certain new combinations and dosages of insecticides were studied for their effect on wheat quality in co-operation with the Stored Products Insect Laboratory of the Canada Department of Agriculture. The active principle in these insecticides is piperonyl butoxide, and the best carrier appears to be wheat dust. Assistance was also given to the Universities of Saskatchewan and Manitoba in studies of farm driers; this involved comparing the qualities of control and dried samples for both wheat and flax.

At the time of writing, a small study is in progress, with North American Cyanamid Limited, on the effect of sodium cyanamid on wheat quality when this chemical is used for "top-killing" in order to hasten maturity. This study has not yet been completed. Miscellaneous studies were also conducted for a number of other institutions in Canada and elsewhere.

Research

The volume of work required to control drying reduced research activities. Since little of the normal routine work could be postponed, it was necessary to borrow skilled staff from the research sections for the drying studies. Moreover, the milling and baking laboratories were fully engaged with work on drying for about six months, and this interfered with certain research projects.

The bread wheat section, under the leadership of Dr. I. Hlynka, continued to study the structure of dough by seeking more meaningful and precise measurements of changes in the physical properties of dough under experimentally imposed conditions. Such studies must eventually lead to hypotheses that explain observed behaviour of dough in terms of its molecular architecture as well as of the reactivity of its functional groups. An improved relaxometer for recording the rate of relaxation of stress in stretched dough balls was designed and built by Mr. J. R. Cunningham. Exploratory research has shown that this model meets current requirements. Studies of reproducibility, and of such basic factors as water absorption and rest period, have been completed in preparation for more definitive research.

Complementary studies with the Extensograph, which deal with another aspect of the same problem, have been extended by Dr. C. J. Dempster. These studies, which relate observed changes in physical properties to the reaction of chemicals, have been extended to include agents other than bromate that are known to improve dough performance in the bakeshop. Chemical studies of the disappearance of bromate from yeasted and unyeasted doughs have been continued to examine the relation between this disappearance and the bromate effect measured by the Extensograph; the influence of acidity (pH) has also been investigated. These related studies have served to introduce a new approach in the study of dough behaviour that may stimulate the formulation of a more adequate hypothesis describing the behaviour of proteins and other materials that occur in dough.

In the durum section, Dr. G. N. Irvine and his staff have continued studies of lipoxidase, the enzyme that is responsible for the disappearance of natural colouring matters during the processing of macaroni. The changes that occur in the rate of oxidation can be best explained by postulating that the enzyme occurs in a natural form and subsequently reverts to a more stable form. A rapid screening test has been developed for predicting macaroni-making behaviour of durum varieties in terms of original pigment and lipoxidase activity. This test is being used as an aid in breeding new durum varieties, resistant to rust but also of satisfactory quality for making macaroni. An exploratory survey has been completed of the range of lipoxidase activity in specimen varieties representing various classes of wheat in addition to the durums. A good start has also been made on studies of a second enzyme, catalase, which is also involved in oxidation reactions occurring in wheat products.

The malting section, under Dr. Meredith, has continued parallel studies of barley and malt gums and of the enzymes that attack them. The gums are considered to be cell-wall constituents, and the breaking down of these compounds during malting is believed to play a significant part in controlling the quality of the finished malt. Recent studies have been directed towards preparation of a nitrogen-free product and its fractionation into component parts. Following discovery in a bacterial preparation of an enzyme that attacked the gums, Mr. E. J. Bass is now investigating corresponding enzymes in barley and malt. Steady progress has also been made in developing improved laboratory malting equipment. The new steep tank is almost completed. Two models of the principal working parts of the germination chamber have been built, and the essentials of the general design have now been settled.

In the analytical section, Mr. D. K. Cunningham has carried the project involving comparative studies of "gluten" proteins of wheat, barley, rye, and oats, to a stage at which it can be discontinued pending developments in related areas. Studies of moisture meters were continued by Mr. I. Levi. The Tag-Heppenstall, Universal, Marconi and Halross meters have now been compared for high- and low-grade spring wheats, durum wheat, barley, oats, rye, and flax. The Halross meter stood first in precision for high-grade wheat, oats, rye and flax, second for durum wheat and barley, and fourth for low-grade wheat. The Marconi meter stood first in precision for low-grade wheat, durum wheat, and barley.

More detailed reports on these and other research investigations appear in the Annual Report of the Laboratory and in the scientific papers published from time to time.

Laboratory Facilities

Early in the year, the Laboratory took over an additional room adjoining the present suite on the ground floor. The sample room, which had been cramped for space, was moved to these new quarters and redesigned and equipped to facilitate the flow of work.

The old sample room was then converted into a baking laboratory by moving equipment and benching from the eighth floor and by installing the required electrical and plumbing services. The new baking laboratory now adjoins the mill room, and supervision and co-ordination of these two units is thus improved. At the same time, the mill room was redesigned to accommodate a new Allis-Chalmers mill, and to improve the air-conditioning by blocking the windows.

The original baking laboratory on the eighth floor was thus released to relieve congestion in the research laboratories. Three of the research sections were partially reallocated to make better use of the space. It was also possible to transfer the Hollerith punch-card equipment and other statistical equipment to space made available by transfer of flour storage to the ground floor.

All the changes were made smoothly in series, and with little loss of time, in spite of the pressure of routine work. This slight expansion and resulting reorganization is proving most satisfactory.

Staff

During 1952, Messrs. M. Golubchuk, T. A. Watts, and P. R. Templin, who undertook postgraduate research as students in this Laboratory, received M.Sc. degrees from the University of Manitoba. Mr. W. Bushuk is continuing his research with us towards an M.Sc.

The Laboratory lost the services of Mr. K. Hlynka, the senior member of the sub-professional staff, when he transferred to the Board's administrative branch. Mr. T. J. Reichert, another experienced technician also resigned. Moreover, there were six resignations from the lowest of the grades for assistant technicians. These losses were replaced by promotion and recruitment. While the staff situation was at times serious, especially in view of the extra work on drying, the writer believes that the present staff maintains a high calibre throughout.

Annual Report

A detailed report on the work of the Grain Research Laboratory has been prepared. In accordance with past practice, it is recommended that this report be published in full to put on record data on the quality of Canadian grains and progress reports on Laboratory investigations.

Respectfully submitted,

J. ANSEL ANDERSON,

Chief Chemist.

APPENDIX J

Operation of the Canadian Government Elevators

FORT WILLIAM, Ont.
December 6, 1952.

Board of Grain Commissioners,
Winnipeg, Man.

SIRS,—

I beg to submit the following report on the operations of the Canadian Government Elevators for the crop year 1951-52.

Elevators Operated

The interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge continued to be operated during the year as public terminals.

The elevator at Prince Rupert was licensed as a public terminal. During October, 1951, a key staff was recruited from the interior elevators and operations commenced late that month receiving wheat for export. A total of nine cargoes of wheat were shipped through this terminal after which operations were changed to barley. The latter movement has continued and at this date twenty cargoes of barley have been shipped.

Elevator Leased

The elevator at Port Arthur continues to be operated by McCabe Grain Co. Ltd., under lease for a term of five years from August 1, 1949.

Tariff of Charges

The tariff of charges remained substantially those of the previous year except elevation which was increased from one cent (1c.) to one and one-eighth cents (1-1/8c.). Minor changes were effected in charges for drying.

Volume of Grain Handled

The volume of grain handled was considerably greater than the previous year, due largely to the operation of the Prince Rupert elevator.

All interior elevators operated drying equipment at capacity during the Winter and Spring. Approximately eleven million bushels of grain were dried at these elevators and over one million bushels at Prince Rupert.

Comparative figures of grain received for the two years 1950-51 and 1951-52 are as follows:

Elevator	1950-51	1951-52	Decrease	Increase
	bu.	bu.	bu.	bu.
Moose Jaw.....	4,442,285	2,685,525	1,756,760	—
Saskatoon.....	4,746,616	2,996,106	1,750,510	—
Calgary.....	2,256,312	3,889,280	—	1,632,968
Edmonton.....	1,671,705	3,759,060	—	2,087,355
Lethbridge.....	78,538	1,048,807	—	970,269
Prince Rupert.....	—	6,603,976	—	6,603,976
Totals.....	13,195,456	20,982,754	—	7,787,298

Shipments from all elevators during the year totalled 26,445,728 bushels. Stocks in store totalled 5,795,551 bushels as of July 31, 1952.

Receipts of rapeseed at Saskatoon amounted to 3,878,540 lbs. and shipments were 3,916,830 lbs. Indications are these figures will be exceeded in the 1952-53 season as receipts continue heavy to date.

Maintenance of Buildings and Equipment

The buildings, equipment and trackage at all points have been maintained and are in good operating condition.

At Port Arthur a new passenger elevator with modern safety features has been installed.

The conversion to gas-fired boilers at Lethbridge has been completed.

At Edmonton the drier heating coils and bases are being renewed. The boiler linings and battery wall were renewed, necessitated by normal wear and tear.

At Prince Rupert the balance of the wharf bracing has been completed and boom logs installed.

Staffs

Staffs have been maintained at the minimum of requirements. Substantial increases in temporary casual help were necessary on account of the extraordinary activity due to large volume of drying and handling of grain at all points. Extra shifts were required for the continuous drying operations during the winter.

Five permanent employees retired during the year for reasons of age or ill-health, the resultant vacancies being filled by promotion.

It is with sincere regret that we record the deaths of Mr. E. C. Millar, Superintendent of the Calgary elevator, Mr. J. J. Stafford, Superintendent of the Lethbridge elevator, and Mr. D. J. MacDonald, Shed Foreman at Edmonton, each of whom had given many years of efficient service.

Financial Results of Operations

Earnings from all sources during the fiscal year ended March 31, 1952, amounted to \$1,717,603.81, an increase of \$1,016,910.50 over the previous year.

Operating expenses were \$902,265.93, an increase of \$336,541.54 over the previous year.

The surplus of revenue over expenditure was \$815,337.88 compared with a surplus of \$134,968.92 the previous year.

As in former years, no provision was made in the financial statements to cover depreciation of plants and equipment, expenditures for maintenance of which are included in operating costs.

Respectfully submitted,

R. HETHERINGTON,
General Manager.

APPENDIX K

Report of Revenue and Expenditure

Table K-1.—STATEMENT OF REVENUE AND EXPENDITURE FOR
FISCAL YEAR ENDED MARCH 31, 1952

(a) WINNIPEG—

Revenue	\$	cts.	\$	cts.	\$	cts.
Executive Offices—Fines.....			1,560	00		
License and Bonding Fees.....	29,404	00				
Less Fees Refunded.....	67	00				
			29,337	00		
Registration Fees.....	16,497	47				
Cancellation Fees.....	16,078	63				
			32,576	10		
Appeal Fees.....	1,662	00				
Less Fees Refunded.....	159	00				
			1,503	00		
Inspection Fees.....	479,664	64				
Overtime.....	824	95				
Splits—Cargo.....	357	70				
Samples Sold.....	12,387	73				
Sampling Fees.....	6,395	00				
Express Charges.....	3,328	00				
			502,958	02		
Weighing Fees.....	22,184	58				
Overtime.....	301	29				
Condition Reports.....	266	75				
			22,752	53		
					590,686	65
<i>Expenditure</i>						
<i>Board and Executive Offices</i>						
<i>Salaries—</i>						
Commission and Secretary.....	37,909	92				
Secretary's Office.....	29,415	94				
Rent.....	6,368	00				
Travelling Expenses.....	3,517	22				
General Expenses.....	5,532	89				
Printing and Stationery.....	2,541	54				
			85,285	51		
<i>Assistant Commissioner's Office</i>						
Salaries.....	7,500	00				
Rent.....	256	20				
Travelling Expenses.....	1,247	40				
General Expenses.....	148	00				
Printing and Stationery.....	14	36				
			9,165	96		
<i>License and Bonding</i>						
Salaries.....	19,728	23				
Rent.....	1,803	28				
General Expenses.....	479	87				
Printing and Stationery.....	970	64				
			22,982	02		
<i>Accounts</i>						
Salaries.....	13,288	04				
General Expenses.....	443	25				
Printing and Stationery.....	438	94				
			14,170	23		
<i>Registration</i>						
Salaries.....	20,652	01				
Rent.....	2,048	30				
General Expenses.....	620	99				
Printing and Stationery.....	317	98				
			23,639	28		
<i>Grain Research Laboratory</i>						
Salaries.....	106,377	90				
Rent.....	14,465	80				
Travelling Expenses.....	1,823	62				
General Expenses.....	30,622	63				
Printing and Stationery.....	3,253	04				
			156,542	99		
<i>Grain Appeal Tribunal</i>						
Salaries.....	5,400	00				
Rent.....	540	40				
General Expenses.....	1,229	54				
Printing and Stationery.....	20	22				
			7,190	16		

Table K-1.—STATEMENT OF REVENUE AND EXPENDITURE FOR FISCAL YEAR ENDED MARCH 31, 1952—continued

(a) WINNIPEG—Concluded						
Expenditure—Concluded						
Grain Standard Committee						
Travelling Expenses.....	\$	cts.	\$	cts.	\$	cts.
General Expenses.....						
					4,690	53
Inspection Branch						
Salaries.....	452,623	34				
Rent.....	23,357	90				
Travelling Expenses.....	1,341	25				
General Expenses.....	22,831	89				
Printing and Stationery.....	8,442	33				
					508,596	71
Weighing Branch						
Salaries.....	41,006	69				
Rent.....	1,920	20				
Travelling Expenses.....	126	00				
General Expenses.....	730	23				
Printing and Stationery.....	117	30				
					43,900	42
						876,163 81
(b) CHURCHILL—						
Revenue						
Inspection Fees.....	24,875	19				
Overtime.....	1,254	65				
					26,129	84
Weighing Fees.....	12,437	98				
Overtime.....	900	80				
					13,338	78
						39,468 62
Expenditure						
Inspection Branch						
Salaries.....	11,222	68				
Travelling Expenses.....	4,992	49				
General Expenses.....	57	91				
					16,273	08
Weighing Branch						
Salaries.....	5,970	85				
Travelling Expenses.....	3,044	35				
General Expenses.....	4	50				
					9,019	70
						25,292 78
(c) KEEWATIN—						
Revenue						
Inspection Fees.....	5,304	88				
Overtime.....	106	15				
					5,411	03
Weighing Fees.....	6,463	09				
Overtime.....	139	40				
					6,602	49
						12,013 52
Expenditure						
Inspection Branch						
Salaries.....	5,426	63				
Printing and Stationery.....	27	60				
					5,454	23
Weighing Branch						
Salaries.....	6,594	65				
General Expenses.....	65	44				
					6,660	09
						12,114 32
(d) SASKATOON—						
Revenue						
Inspection Fees.....	21,844	03				
Overtime.....	1,226	40				
Samples Sold.....	679	68				
					23,750	11
Weighing Fees.....	14,494	52				
Overtime.....	364	80				
					14,859	32
						38,609 43
Expenditure						
Assistant Commissioner's Office						
Salaries.....	9,580	34				
Travelling Expenses.....	2,098	30				
General Expenses.....	508	46				
Printing and Stationery.....	31	50				
					12,218	60

**Table K-1.—STATEMENT OF REVENUE AND EXPENDITURE FOR
FISCAL YEAR ENDED MARCH 31, 1952—continued**

		\$	cts.	\$	cts.	\$	cts.
(d) SASKATOON—Concluded							
<i>Expenditure—Concluded</i>							
<i>Inspection Branch</i>							
Salaries.....		31,035	90				
Rent.....		877	00				
General Expenses.....		594	41				
Printing and Stationery.....		366	85				
				32,874	16		
<i>Weighing Branch</i>							
Salaries.....		18,767	34				
Travelling Expenses.....		172	65				
General Expenses.....		25	22				
				18,965	21		
						64,057	97
(e) MOOSE JAW—							
<i>Revenue</i>							
Inspection Fees.....		17,924	69				
Overtime.....		1,218	90				
Samples Sold.....		477	71			19,621	30
Weighing Fees.....		9,236	95				
Overtime.....		1,298	00			10,534	95
							30,156 25
<i>Expenditure</i>							
<i>Inspection Branch</i>							
Salaries.....		27,596	52				
Rent.....		1,125	00				
General Expenses.....		865	22				
Printing and Stationery.....		238	69				
				29,825	43		
<i>Weighing Branch</i>							
Salaries.....		16,033	00				
General Expenses.....		25	50			16,058	50
							45,883 93
(f) MEDICINE HAT—							
<i>Revenue</i>							
Inspection Fees.....		9,941	41				
Overtime.....		22	40				
Samples Sold.....		484	40			10,448	21
Weighing Fees.....		10,080	99				
Overtime.....		97	20			10,178	19
							20,626 40
<i>Expenditure</i>							
<i>Inspection Branch</i>							
Salaries.....		9,566	92				
Rent.....		841	00				
General Expenses.....		142	56				
Printing and Stationery.....		91	83			10,642	31
<i>Weighing Branch</i>							
Salaries.....		10,192	59				
General Expenses.....		8	50			10,201	09
							20,843 40
(g) LETHBRIDGE—							
<i>Revenue</i>							
Inspection Fees.....		4,210	30				
Overtime.....		729	90				
Samples Sold.....		397	26			5,337	46
Weighing Fees.....		1,383	33				
Overtime.....		117	80			1,501	13
							6,838 59
<i>Expenditure</i>							
<i>Inspection Branch</i>							
Salaries.....		10,077	86				
General Expenses.....		111	06				
Printing and Stationery.....		23	28			10,212	20
<i>Weighing Branch</i>							
Salaries.....		4,355	74				
General Expenses.....		18	20			4,373	94
							14,586 14

**Table K-1.—STATEMENT OF REVENUE AND EXPENDITURE FOR
FISCAL YEAR ENDED MARCH 31, 1952—continued****(h) CALGARY—**

<i>Revenue</i>	\$	cts.	\$	cts.	\$	cts.
Inspection Fees.....	99,522	78				
Samples Sold.....	2,650	11				
Express Charges.....	532	00				
					102,704	89
Weighing Fees.....	18,734	34				
Overtime.....	1,125	20			19,859	54
Appeal Fees.....	2,706	00				
Less Fees Refunded.....	456	00				
					2,250	00
						124,814 43
<i>Expenditure</i>						
<i>Assistant Commissioner's Office</i>						
Salaries.....	10,135	32				
Rent.....	828	00				
Travelling Expenses.....	2,382	64				
General Expenses.....	326	25				
Printing and Stationery.....	11	92			13,684	13
<i>Inspection Branch</i>						
Salaries.....	66,152	48				
Rent.....	3,000	00				
Travelling Expenses.....	45	00				
General Expenses.....	3,132	93				
Printing and Stationery.....	1,371	22			73,701	63
<i>Weighing Branch</i>						
Salaries.....	32,112	50				
Rent.....	314	04				
General Expenses.....	287	20			32,713	74
<i>Grain Appeal Board</i>						
Salaries.....	5,088	00				
Rent.....	420	00				
General Expense.....	2,004	81				
Printing and Stationery.....	12	07			7,524	88
						127,624 38

(i) EDMONTON—

<i>Revenue</i>	\$	cts.	\$	cts.	\$	cts.
Inspection Fees.....	83,957	62				
Overtime.....	969	00				
Samples Sold.....	1,689	74				
Express Charges.....	513	25			87,129	61
Weighing Fees.....	8,196	99				
Overtime.....	291	80			8,488	79
Appeal Fees.....	1,749	00				
Less Fees Refunded.....	246	00			1,503	00
						97,121 40
<i>Expenditure</i>						
<i>Inspection Branch</i>						
Salaries.....	74,106	41				
Rent.....	6,055	00				
Travelling Expenses.....	8	00				
General Expenses.....	3,560	89				
Printing and Stationery.....	1,065	57			84,795	87
<i>Weighing Branch</i>						
Salaries.....	16,499	45				
General Expenses.....	109	95			16,609	40
<i>Grain Appeal Board</i>						
Salaries.....	5,872	00				
Rent.....	900	00				
General Expenses.....	1,249	08				
Printing and Stationery.....	1	50			8,022	58
						109,427 85

**Table K-1.—STATEMENT OF REVENUE AND EXPENDITURE FOR
FISCAL YEAR ENDED MARCH 31, 1952—Continued**

(l) TORONTO—

<i>Revenue</i>	\$	cts.	\$	cts.	\$	cts.
Inspection Fees.....	7,194	08				
Overtime.....	339	30				
Splits-Cargo.....	3	40				
Samples Sold.....	404	61				
Sampling Fees.....	354	62				
			8,296	01		
					8,296	01

*Expenditure**Inspection Branch*

Salaries.....	8,272	37				
Rent.....	1,200	00				
Travelling Expenses.....	423	85				
General Expenses.....	429	31				
Printing and Stationery.....	88	32				
			10,413	85		
					10,413	85

(m) MONTREAL—

<i>Revenue</i>						
Inspection Fees.....	10,546	12				
Overtime.....	635	85				
Splits—Cargo.....	908	00				
Samples Sold.....	524	70				
Sampling Fees.....	2,999	08				
			15,613	75		
Registration Fees.....	4,535	14				
Cancellation Fees.....	4,461	68				
			8,996	82		
					24,610	57

*Expenditure**Inspection Branch*

Salaries.....	66,943	44				
Rent.....	3,348	00				
Travelling Expenses.....	6,464	57				
General Expenses.....	1,354	07				
Printing and Stationery.....	381	30				
			78,491	38		

Weighing Branch

Salaries.....	3,766	00				
Rent.....	723	96				
Travelling Expenses.....	24	30				
General Expenses.....	196	19				
Printing and Stationery.....	360	43				
			5,070	88		

Registration

Salaries.....	8,352	28				
Rent.....	828	00				
Travelling Expenses.....	240	25				
General Expenses.....	385	50				
Printing and Stationery.....	107	82				
			9,913	85		
					93,476	11

(n) CHATHAM—

<i>Revenue</i>						
Inspection Fees.....	22,063	32				
Overtime.....	206	95				
Samples Sold.....	645	39				
Sampling Fees.....	24,612	41				
			47,528	07		
					47,528	07

*Expenditure**Inspection Branch*

Salaries.....	27,396	46				
Rent.....	1,140	00				
Travelling Expenses.....	14,334	52				
General Expenses.....	2,035	36				
Printing and Stationery.....	143	86				
			45,050	20		
					45,050	20

**Table K-1.—STATEMENT OF REVENUE AND EXPENDITURE FOR
FISCAL YEAR ENDED MARCH 31, 1952—concluded**

(o) PRINCE RUPERT—			
Revenue	\$	cts.	\$ cts.
Inspection Fees.....	5,063	78	
Overtime.....	242	70	
Samples Sold.....	41	37	
			5,347 85
Weighing Fees.....	3,952	94	
Overtime.....	766	35	
			4,719 29
			10,067 14
Expenditure			
Inspection Branch			
Salaries.....	917	05	
Travelling Expenses.....	2,110	22	
General Expenses.....	61	92	
			3,089 19
Weighing Branch			
Salaries.....	766	35	
Travelling Expenses.....	3,286	12	
General Expenses.....	20	12	
			4,072 59
			7,161 78
(p) KENORA—			
Revenue			
Weighing fees.....	773	71	
			773 71
Expenditure			
Weighing—Salaries.....	773	71	
			773 71
			773 71
(q) DULUTH—			
Revenue			
Inspection—Overtime.....	556	57	
			556 57
Expenditure			
Inspection Branch			
Salaries.....	2,847	77	
Travelling Expenses.....	2,396	04	
General Expenses.....	30	25	
			5,274 06
			5,274 06

TABLE K-2
Summary of Operation by Branches

—	Inspection		Weighing		Appeal Boards		Registration		License and Bonding		Statistical		Accounting		Research Laboratory		Grain Standards Committee		Administration		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
Fees.....	1,811,470	57	907,284	76	5,256	00	50,378	99	29,337	00	—	—	—	—	—	—	—	—	—	—	2,803,727	32
Overtime.....	33,329	67	28,115	85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	61,445	52
Sampling.....	34,361	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34,361	11
Express Charges.....	4,373	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,373	25
Cargo-Splits.....	3,041	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,041	10
Samples Sold.....	49,489	77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49,489	77
Condition Reports.....	—	—	267	00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	267	00
Jury Fees.....	—	—	24	00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24	00
Fines.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,560	00
Totals.....	1,936,065	47	935,691	61	5,256	00	50,378	99	29,337	00	—	—	—	—	—	—	—	—	1,560	00	2,958,289	07

REVENUE

EXPENDITURE

Salaries.....	1,492,417 99	697,365 03	16,360 00	32,554 90	19,728 23	52,017 31	13,288 04	106,377 90	—	95,857 52	2,525,966 92
Rent.....	62,850 70	8,562 00	1,860 40	4,508 30	1,803 28	5,371 00	—	14,465 80	—	7,660 20	107,081 68
Travel.....	35,663 72	20,251 51	—	240 25	—	524 75	—	1,823 62	2,790 53	9,245 56	70,539 94
Expenses.....	53,099 65	7,518 20	4,483 43	1,265 50	479 87	2,756 64	443 25	30,622 63	1,900 00	6,547 04	109,107 21
Printing and Stationery..	20,660 27	5,372 45	33 79	438 31	970 64	4,255 46	438 94	3,253 04	—	2,599 32	38,022 22
Totals.....	1,664,683 33	739,069 19	22,737 62	39,037 26	22,952 02	64,925 16	14,170 23	156,542 99	4,690 53	121,909 64	2,850,717 97

Total Revenue.....	\$2,958,289 07
Total Expenditure.....	2,850,717 97
Net Surplus.....	\$ 107,571 10

TABLE K-3
Statement Showing Revenue and Expenditure by Points and Branches

Inspection	Weighing		Appeal Boards		Registration		License and Bonding		Statistical		Accounting		Research Laboratory		Grain Standards Committee		Administration		Total		
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	
REVENUE																					
Winnipeg.....	502,958	02	22,752	53	1,503	00	32,756	10	29,337	00	—	—	—	—	—	—	1,500	00	590,686	65	
Churchill.....	26,129	84	13,338	78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39,468	62	
Keewatin.....	5,411	03	6,602	49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12,013	52	
Saskatoon.....	23,750	11	14,859	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	38,609	43	
Moose Jaw.....	19,621	30	10,534	95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30,156	25	
Medicine Hat.....	10,448	21	10,178	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20,626	40	
Lethbridge.....	5,337	46	1,501	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,838	59	
Calgary.....	102,704	89	19,859	54	2,250	00	—	—	—	—	—	—	—	—	—	—	—	—	124,814	43	
Edmonton.....	87,129	61	8,488	79	1,503	00	—	—	—	—	—	—	—	—	—	—	—	—	97,121	40	
Vancouver.....	246,507	28	193,306	46	—	—	8,806	07	—	—	—	—	—	—	—	—	—	—	448,619	81	
Fort William.....	828,725	47	628,776	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,457,501	90	
Toronto.....	8,296	01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,296	01	
Montreal.....	15,613	75	—	—	—	—	8,996	82	—	—	—	—	—	—	—	—	—	—	24,610	57	
Chatham.....	47,528	07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47,528	07	
Kenora.....	—	—	773	71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	773	71	
Prince Rupert.....	5,347	85	4,719	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10,067	14	
Duluth.....	556	57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	556	57	
Totals.....	1,936,065	47	935,691	61	5,256	00	50,378	99	29,337	00	—	—	—	—	—	—	1,500	00	2,938,289	07	

GRAIN COMMISSION

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EXPENDITURE

Winnipeg.....	508,596 71	43,900 42	7,190 16	23,639 28	22,982 02	—	14,170 23	156,542 99	4,690 53	94,451 47	876,163 81
Churchill.....	16,273 08	9,019 70	—	—	—	—	—	—	—	—	25,292 78
Keewatin.....	5,454 23	6,660 09	—	—	—	—	—	—	—	—	12,114 32
Saskatoon.....	32,874 16	18,965 21	—	—	—	—	—	—	—	12,218 60	64,057 97
Moose Jaw.....	29,825 43	16,068 50	—	—	—	—	—	—	—	—	45,883 93
Medicine Hat.....	10,642 31	10,201 09	—	—	—	—	—	—	—	—	20,843 40
Lethbridge.....	10,212 20	4,373 94	—	—	—	—	—	—	—	—	14,586 14
Calgary.....	73,701 63	32,713 74	7,524 88	—	—	—	—	—	—	13,684 13	127,624 38
Edmonton.....	84,785 87	16,609 40	8,022 58	—	—	—	—	—	—	—	109,427 85
Vancouver.....	139,337 50	135,263 25	—	5,454 13	—	—	—	—	—	—	280,054 88
Fort William.....	610,651 53	435,386 67	—	—	—	64,925 16	—	—	—	1,555 44	1,112,518 80
Toronto.....	10,413 85	—	—	—	—	—	—	—	—	—	10,413 85
Montreal.....	78,491 38	5,070 88	—	9,913 85	—	—	—	—	—	—	93,476 11
Chatham.....	45,050 20	—	—	—	—	—	—	—	—	—	45,050 20
Kenora.....	—	773 71	—	—	—	—	—	—	—	—	773 71
Prince Rupert.....	3,089 19	4,072 59	—	—	—	—	—	—	—	—	7,161 78
Duluth.....	5,274 06	—	—	—	—	—	—	—	—	—	5,274 06
Totals.....	1,664,683 33	739,069 19	22,737 62	39,007 26	22,982 02	64,925 16	14,170 23	156,542 99	4,690 53	121,909 64	2,850,717 97

Total Revenue..... \$2,958,289 07

Total Expenditure..... 2,850,717 97

Net Surplus..... \$ 107,571 10

APPENDIX L

Regulations

Regulations made in accordance with the provisions of
The Canada Grain Act, in effect December 31, 1952.

Regulation
No.

- 1 Registration and Cancellation of Terminal Elevator Warehouse Receipts.
- 2 Registration and Cancellation of Eastern Warehouse Receipts and Transfer Receipts.
- 3 Construction of Elevators.
- 4 Cleaning Grain and Bins, Terminal Elevators.
- 5 Off Grades for Western Grain.
- 6 Off Grades for Eastern Grain.
- 7 Grades of Screenings.
- 8 Inspection of Samples Taken other than at an Inspection Point.
- 9 Appeals from Inspection Officers to Grain Appeal Tribunals.
- 10 Delivery of Grain to Ocean Vessels at Montreal, Quebec.
- 11 Delivery of Grain to Ocean Vessels at West Saint John, N.B.
- 12 Delivery of Grain to Ocean Vessels at East Saint John, N.B.
- 13 Delivery of Grain to Ocean Vessels at Halifax, N.S.
- 14 Enforcement of Lien by Sale of Grain.
- 15 Drying of Grain.
- 16 Fees.
- 17 Records, Reports and Returns.
- 18 Procedure, Country Elevators.
- 19 Receipt for Grain Delivered to Private Country Elevators and Mill Elevators.
- 20 Maximum Tariff of Charges, Eastern Elevators.
- 21 Maximum Tariff of Charges and Shrinkage Allowance, Country Elevators
- 22 Maximum Tariff of Charges, Terminal Elevators.
- 23 Applications for Licences and Terms and Conditions under which Licences are Issued.
- 24 Receipt for Storage in Transit for Reshipment out of Canada of Grain Grown Outside Canada.

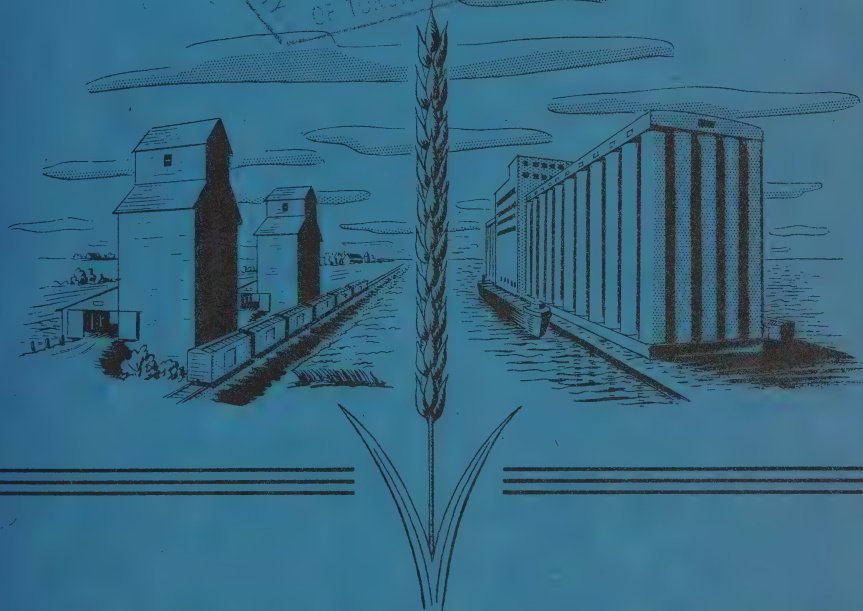
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The Board of Grain Commissioners FOR CANADA

DEPARTMENT OF TRADE AND COMMERCE

Rt. Hon. C. D. Howe, M.P., Minister Wm. Frederick Bull, Deputy Minister



Final
Report for 1953



Board of
Grain Commissioners
for Canada

ANNUAL REPORT
for 1953

•

DEPARTMENT OF TRADE AND COMMERCE
OTTAWA, CANADA

Minister: Rt. Hon. C. D. Howe, M.P.

Deputy Minister: Wm. Frederick Bull

EDMOND CLOUTIER, C.M.G., O.A., D.S.P.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
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WINNIPEG, Manitoba
January 25, 1954.

The Right Honourable C. D. Howe, M.P.,
Minister of Trade and Commerce,
Ottawa, Canada.

SIR,—We beg to submit herewith Annual Report of the Board of Grain Commissioners for Canada for the year 1953 in compliance with section 23 of the Canada Grain Act.

This report records information and statistics relating to grain handlings for the crop year August 1, 1952 to July 31, 1953; expenditures and revenue for the fiscal year April 1, 1952 to March 31, 1953, and summarizes the major activities of the Board and its branches for the 1953 calendar year.

Summaries are given in the first and main portion of this report, and additional information in greater detail submitted by various branches and supported by tables of data is presented in Appendices A to L which follow the main section.

General

The 1952-53 crop year began with a very substantial carryover of grain (415.7 million bushels) at July 31, 1952, to which was added the record harvest of very close to 1.5 billion bushels of the five principal grains—wheat, oats, barley, rye and flax. By the end of the crop year July 31, 1953, producers in the prairie provinces had marketed 842.8 million bushels or 105.4 million more than the previous crop year.

Commercial disappearance of Canadian grain during 1952-53 amounting to 732.1 million was heavier by 61.2 million bushels than that for the previous year. At the end of the crop year under review there remained an even larger carryover amounting to 655.8 million bushels of the five principal grains on farms, in elevators and in transit. Then for the third consecutive year, a bumper harvest in 1953 added another 1.3 billion bushels of grain to make available about two billion bushels for disposition.

The sustained volume of production and handlings in the last few years reflects the volume of work and the extent of services which were required from the Board's officers and staffs to facilitate the orderly movement of grain through licensed channels. Fortunately, there were no serious quality difficulties or degrading factors in connection with the large 1953 harvest. However, as a result of the overtaxed storage facilities old crop grain held on farms and in country elevators and annexes created problems of insect infestation and spoilage of some grain.

It will be recalled that each of the last four Western harvests was characterized by some unique feature. The year 1950 produced a very large crop which was heavily frosted; the Fall of 1951 was very wet and the large crop of that year had a high proportion of tough and damp grades, in addition a third of it wintered under snow to be recovered by spring threshing; the 1952 harvest produced an all-time record crop; and the 1953 harvest saw production of another large volume of average

quality grains. For more detailed background information on crops, the following table gives a summary of seeded acreage and crop production for 1952 and 1953 with a 5-year comparative average:

	Acreage			Production		
	Average 1948-52	1952	1953	Average 1948-52	1952	1953
	million acres			million bushels		
Wheat.....	26.0	26.0	25.5	492.0	637.9	614.0
Oats.....	11.5	11.1	9.8	411.2	466.8	405.6
Barley.....	7.1	8.5	8.9	198.2	291.3	262.1
Rye.....	1.4	1.3	1.5	18.2	24.6	28.1
Flaxseed.....	1.0	1.2	1.0	9.3	13.0	10.4
Totals.....	47.0	48.1	46.7	1,129.9	1,483.6	1,320.2

To facilitate orderly marketing of these unprecedented heavy crops, Canadian Wheat Board delivery quotas and shipping preferences regulated the flow of grain to shipping points in harmony with disposition of it into domestic and export channels. Marketings for the first five months of the new crop year of wheat, oats, barley, rye and flax to December 31, 1953, were 339.2 million bushels as against 394.5 million bushels for the same period of the previous crop year.

Figures for shipments and stocks in store in millions of bushels covering the five principal grains at the end of the first five months with comparable figures for the last year shown in brackets, were as follows: Country elevator stocks, 260.8 (204.4); shipments from country elevators, 314.7 (338.2); Lakehead and Pacific stocks, 71.6 (48.3).

Inspection of Grain

Inspection of grain revealed no serious degrading factors in the 1952-53 crop with the exception of the incidence of split and broken kernels resulting from dry weather early in the harvesting season. The grain was generally of good quality with a high weight per bushel. There were small areas in Northern Saskatchewan and Alberta where some frost damage was evident.

The Board's Inspection Branch graded well over 400,000 carlots of grain which exceeded the previous record by some 12 per cent and is 46 per cent over the average figure for the past ten years. In addition, some 596.7 million bushels of grain were inspected from terminal elevators loading to vessels.

Grain Drying

Following the record quantities of grain dried during the previous crop year, the harvest of 1952 yielded dry grain of which only 14 per cent graded tough and damp. Accordingly, requirements for drying were greatly reduced. Although there was some carryover of tough and damp grades, only 5.9 million bushels were dried artificially and 56.3 million bushels were dried by natural means during the 1952-53 crop year. This compares with 122.5 million bushels artificially dried and 46.3 million naturally dried the year before. More detailed data on grain drying are presented in Table H-16 of the Report of the Statistics Branch in Appendix H.

Research

The Board's Research Laboratory has continued to study the quality of Canadian grain crops, to assist the Grain Inspection Branch and to serve as scientific consultants to the Board in complaints and inquiries. Research on certain fundamental factors relating to grain quality has been carried on and the Laboratory collaborated with plant breeders by testing new varieties of grain.

Four crop bulletins, two protein maps and an annual report are published each year by the Laboratory for information of millers and overseas buyers, and to put on record data on grain; results of research are published in various scientific journals. The work of the Laboratory is dealt with in greater detail in Appendix I of this report.

Weighing of Grain

In addition to the regular weighing service, scale inspection and weighovers of grain stocks in terminal and Eastern elevators, the Board's weighing officials investigated complaints of vessel outturn shortages with a view to determining the possible cause of shortages and when possible, to assign liability for them against responsible parties.

During the 1952-53 crop year there was further improvement in outturn loss of grain shipped from Lakehead elevators and unloaded at Eastern elevators. The average loss on vessel shipments of wheat was 27 pounds per thousand bushels.

Statistics

The Statistics Branch has continued to compile and publish statistical information on grain at various stages of marketing and handling. With the removal of the Branch from Fort William to Winnipeg, and installation of a punch-card system for handling data, this Branch now has improved facilities to provide required information more readily.

In co-operation with the Canadian Wheat Board and individuals and organizations interested in grain handling, a change in procedure for recording grain data was made. Since August 1, 1953, grain has been recorded in bushels and tenths of a bushel instead of bushels and pounds. This change has facilitated issuance of documents and maintenance of records.

Elevator Charges

The Board held three public meetings at Toronto, Vancouver and Winnipeg in June and July of 1953 to hear representations in regard to maximum grain handling tariffs for the 1953-54 crop year. Submissions were reviewed by the Board but only one change was made. Maximum charges for storing grain at Churchill, Manitoba, were made the same as those at Fort William, Port Arthur and Winnipeg. Previously, maximum charges at Churchill were set at a lower figure for storage between October and July.

Regulations of the Board

New regulations were made by the Board during 1953 as follows:

Regulation No. 25—April 16, 1953, effective August 1, 1953, authorizing the use of revised form of Cash Purchase Ticket and substitution of "bushels and tenths" for "bushels and pounds" on all country and mill elevator receipts and tickets.

Regulation No. 26—April 30, 1953, prohibiting delivery to licensed elevators of grain treated with mercurial fungicides or other poisonous compounds.

Amendments to existing regulations were as follows:

Regulation No. 16—January 8, 1953, providing for a nominal charge for issuance of additional weight certificates.

August 25, 1953, providing for recovery from licensee of over-time paid by the Board for inspection and weighing services outside regular working hours.

September 22, 1953, reducing fees for inspection of certain samples in the Eastern Division.

Regulation No. 9—October 2, 1953, changing procedure for collection of fees on samples submitted to Grain Appeal Tribunals.

All regulations in effect on August 1, 1953, were republished in the *Canada Gazette* on August 12, 1953, in accordance with section 19 of the Canada Grain Act. At that time certain minor revisions and editorial changes were made in twelve of these regulations.

Supplementary Storage

Because of the continued congested grain storage situation during the year, the Board continued to authorize country elevator licensees to use suitable supplementary storage space for warehousing wheat under authority of Order-in-Council P.C. 5122 of September 26, 1951.

At December 31, 1953, 82 buildings with a capacity of 4,411,738 bushels were authorized for supplementary storage. These buildings were inspected by Assistant Commissioners to ensure that they met with certain structural specifications. The authorizations represent an increase of 24 buildings and two million bushels capacity over authorizations for the previous calendar year.

Storage of Foreign Grain for Re-Shipment from Canada

Under authority of subsection (29) of section 15 of the Canada Grain Act and Board's Regulation No. 24, the Board continued to restrict entry of foreign grain into Canada for re-export to give priority to the storage of Canadian grain. During the 1953 calendar year five permits were issued, one to a terminal elevator at the Pacific Coast and four to an Eastern elevator. There were 1,291,000 bushels of foreign grain received in Canada under these permits and there remained 150,000 bushels in store at December 31, 1953.

Shortages and Overages—Country Elevators

Country elevator annual returns covering operations during the 1952-53 crop year which were submitted to the Board in accordance with section 10 of the Board's Regulation No. 17 have been examined and the results have been tabulated. Owing to the very congested storage conditions at country points resulting from continued large crops, many elevators were unable to report weighovers and the results of their operations were estimated. A summary of the country elevator returns is given in the following table which shows the number of elevators reporting shortages or overages for the 1952-53 crop year. Data for 1950-51 and 1951-52 are also given for comparison purposes:

Elevators Reporting	1950-51	1951-52	1952-53
Shortages.....	897	569	640
Neither overages nor shortages.....	56	16	19
Overages of less than .25%.....	1,475	828	893
Overages of .25% to .50%.....	587	455	351
Overages over .50%.....	78	163	115
Not weighed-over.....	1,974	3,016	3,024
Totals.....	5,067	5,047	5,042

Where it was felt by the Board that there were excessive overages on public country elevator operations revealed in the light of the 1951-52 and previous records, public hearings were held to examine operations of the offending agents. During 1953, hearings were held at seven points and 54 country elevator agents with unsatisfactory records were summoned to appear before the Board to show why the Board of Grain Commissioners should not refuse to license any country elevator at which the persons concerned act as agents of the licensee.

Weighover of Stocks, Terminal and Eastern Elevators

In accordance with sections 139 and 140 of the Canada Grain Act 28 terminals and 21 Eastern elevators were weighed over during the 1952-53 crop year. Due to large stocks in store, the Board deferred weighovers at 18 terminals and five eastern elevators under authority of section 141 of the Canada Grain Act, and weighovers of two elevators at the Pacific Coast which came due shortly after a labour strike were deferred beyond the twenty-two month period by the Transport Controller by authority granted him under the Emergency Powers Act.

At one terminal elevator, weighover disclosed excessive overages due the Crown in the value of \$289.48 which amount was received by the Board.

Assistant Commissioners

During 1953 the Province of Manitoba was without an Assistant Commissioner as Mr. John Rayner who served in this position was transferred to the Board's executive offices as Director of Administration for the Board.

Assistant Commissioner M. M. MacKinnon in Alberta and Assistant Commissioner A. G. McLean in Saskatchewan, were called upon to investigate an unprecedented number of complaints and explain or clarify various operations under the Canada Grain Act and the Board's Regulations.

In addition to investigating complaints, the Assistant Commissioners inspected country elevators by checking scales and seeing that other equipment and records were in good order. When licensees applied for authority to operate special annexes for warehousing of wheat under Order-in-Council P.C. 5122, the Assistant Commissioners investigated these storage facilities for conformity with requirements under this Order-in-Council. There was a large number of cases of infested or out of condition grain, or elevators and annexes in danger of collapse throughout Western Canada and the Board authorized out of turn cars to move the grain involved in these distress situations. However, to be assured of the genuineness of these cases, the Assistant Commissioners inspected the buildings or the infested or out of condition grain as far as possible before cars were authorized. During 1953, the Assistant Commissioner for Alberta inspected 1,244 country elevators, and the Assistant Commissioner for Saskatchewan inspected 928 country elevators.

If the Board was of the opinion that certain agents had consistent or excessive overages on country elevator operations and these agents had not been called to appear before the Board, the Assistant Commissioners interviewed them with a view to determining the cause of these overages. They were warned of the action which would be taken by the Board in cases of continued accumulation of excessive overages by them.

One hundred and forty-eight complaints were handled by Assistant Commissioners during 1953. Eight of these originated in Manitoba, 129 in Saskatchewan and eleven in Alberta. Mr. John Rayner, former Assistant Commissioner for Manitoba, assisted the Board in handling the Manitoba complaints. In addition, a large number of inquiries respecting operation of the Car Order Book were dealt with, and where there were inequalities or complaints, suitable solutions were worked out and situations corrected. Car Order Book complaints originated chiefly in Saskatchewan.

Car Order Book

Car Order Book procedure is established under sections 61 to 76 of the Canada Grain Act but section 20 (*k*) of the Canadian Wheat Board Act authorizes the Wheat Board to provide for the allocation of cars other than those placed pursuant to the Car Order Book. The Transport Controller, by an order issued September 16, 1952, and re-issued October 2, 1953, provided that applications for cars in the Car Order Book would be passed over temporarily and not cancelled if an applicant could not ship grain due to Canadian Wheat Board restrictions; then cars would be supplied on these passed over applications in the proper order as soon as restrictions were changed.

On October 19, 1953, the Transport Controller after consultation with, and the approval of, the Canadian Wheat Board and the Board of Grain Commissioners, issued instructions to all railway companies in Western Canada by authority granted him under the Emergency Powers Act, to discontinue the operation of the Car Order Book. This action was necessary to give preference to and confine shipments of grain to certain grades and kinds of grain to suit requirements of the Canadian Wheat

Board commitments. On instructions from the Transport Controller dated December 3, 1953, restrictions on the operation of the Car Order Book were cancelled effective December 14, 1953. Unfiled applications outstanding at October 19, 1953, were honoured and new applications were permitted on and after December 14, 1953.

Committees on Grain Standards

The Committees on Grain Standards for the crop year 1953-54 were constituted by the Board in accordance with section 25 of the Canada Grain Act. Personnel of the Committees is listed in Appendix B to this report.

The Western Committee was convened in Winnipeg on October 7 and again on November 4, 1953, and the Eastern Committee met in Toronto on August 20 and on November 16, 1953 to select and settle standard samples in accordance with sections 27 and 29 of the Canada Grain Act.

Wheat Bonus

During 1953 no wheat bonus certificates were redeemed and certificates outstanding at December 31, 1953, remained at \$7,738.18.

Prairie Farm Assistance Act

The Board continued to collect the one per cent levy on the purchase price of grain marketed in the three prairie provinces. Collections during the 1952-53 crop year totalled over ten million dollars. Since August 1, 1939, the date on which this assistance program was first introduced to July 31, 1953, total money collected by the Board amounted to 75.2 million dollars. More detailed data in this connection are shown in Appendix D, Tables D-2 and D-3.

Lake Freight Rates

No changes were made during 1953 in the maximum rates for carrying grain by lake and river navigation. The maximum rates authorized by the Board's Order No. 19 of February 5, 1951, remained in effect during 1953. A schedule of these rates is published on Page 12 of the Board's Report for 1951. Further information on lake freight rates may be found in the Statistician's Report in Appendix H.

Canadian Government Elevators

The volume of grain handled by the licensed public terminal elevators operated by the Board during 1952-53 crop year showed an increase of 6.6 million bushels over the previous year. This was due to a very large extent to increased handlings at the Prince Rupert Elevator which handled almost double the quantities recorded the previous year. Grain receipts at all elevators totalled 27.6 million bushels.

The Canadian Government Elevators showed a surplus of revenue over operating expenditure in the amount of \$443,672.12 for the fiscal year ended March 31, 1953. This is a decrease from the surplus of \$815,337.88 for the previous fiscal year.

More detailed information respecting the operation of the Canadian Government Elevators may be found in Appendix J to this report.

Transport Controller

Commissioner R. W. Milner who was appointed Transport Controller on August 29, 1951, under Order-in-Council P.C. 4558 has continued to serve in this position with the Department of Transport during 1953, on a part-time loan basis. Commissioner Milner attended a large number of the Board meetings and such meetings as those of the Standards Committees. Accordingly, he was able to keep in close touch with and take part in all phases of the Board's work.

Organization and Personnel

Early in 1953 the Board moved the offices of the Statistics Branch and the Head Office of the Canadian Government Elevators from Fort William to Winnipeg. This transfer was made as part of a plan to effect a better co-ordination of work of the various branches by organizing and consolidating the different units in one central location.

On December 31, 1953, the Board's staff totalled 942 the same as at December 31, 1952. It consisted of 803 employees in the "continuing" establishment and 139 casual employees whose numbers vary with work requirements. The Board's employees provide services at fifteen cities from Montreal to Victoria, mainly in inspection and weighing of grain. During 1953 there were 110 employees appointed and 115 separated in the continuing category, and 216 appointed and 211 resigned in the casual class. At the end of the calendar year the staff of the Canadian Government Elevators at Edmonton, Calgary, Lethbridge, Moose Jaw, Saskatoon, Prince Rupert and Winnipeg consisted of 160 in the continuing establishment and 59 casual employees.

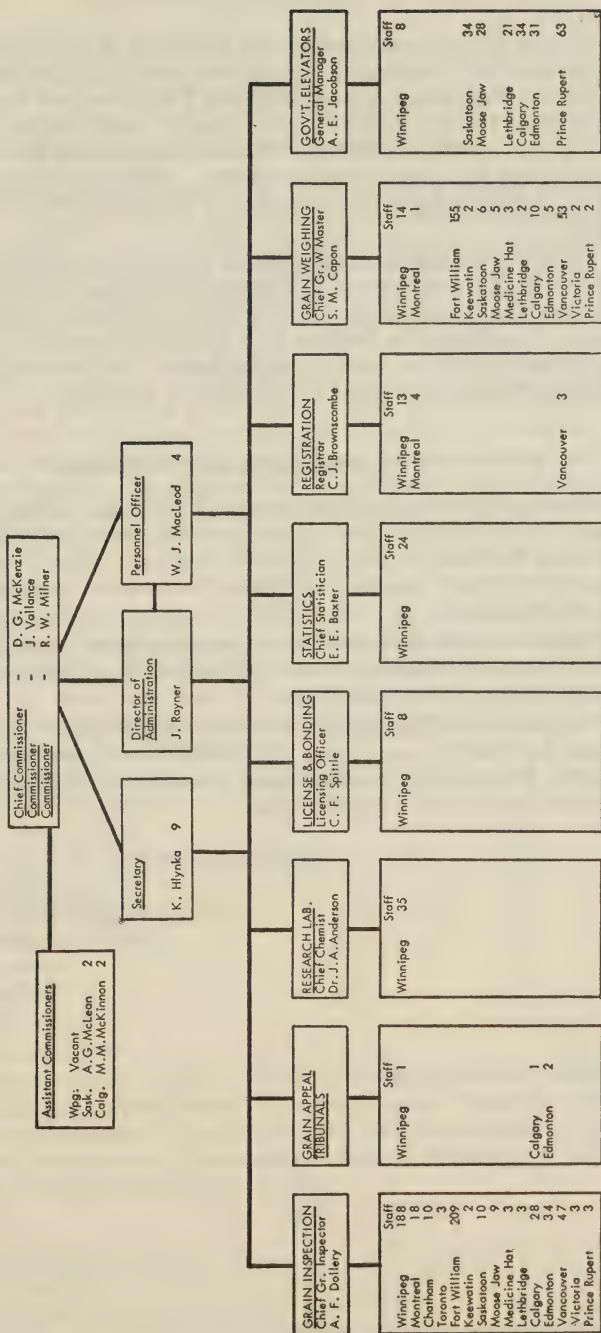
Major changes in staff involved the promotion of Mr. John Rayner from Assistant Commissioner for Manitoba to Director of Administration, appointment of Mr. K. Hlynka as Secretary, replacing Mr. A. T. Calder, resigned, and appointment of Mr. W. J. MacLeod as Personnel Officer to replace Mr. H. G. Dawson who transferred to another Department.

The accompanying chart is presented to put on record the organization of the Board and the makeup and head personnel of the different branches.

Information Program

During 1953 an educational and information program was initiated to make wider distribution of information on the Canada Grain Act and functions of the Board of Grain Commissioners to farmers, elevator agents and other persons concerned. In collaboration with the Exhibition Commission of the Department of Trade and Commerce, a display was constructed and exhibited at summer fairs at Brandon, Yorkton, Lloydminster and Regina, for a total of seventeen days. This exhibit was manned by qualified personnel from the Inspection Branch, the Laboratory and the Executive Offices, and in addition, the Assistant Commissioners for Saskatchewan and Alberta were in attendance much of the time to answer inquiries relating to the functions of the Board. The success of the exhibit and favourable comments received from various sources indicated that this work was well worth while, and the Board has planned to continue to present this exhibit for the benefit of other areas.

BOARD OF GRAIN COMMISSIONERS FOR CANADA



In order to familiarize farmers with provisions of the Canada Grain Act and Regulations of the Board and to acquaint them with their rights and privileges under this Act and Regulations, a booklet entitled *The Farmer and the Country Elevator** was prepared for free distribution to farmers. Some 135,000 of these 24-page booklets were distributed with the help and co-operation of grain firms and associations through their country elevator agents. Judging by inquiries which are being received, it is gratifying to note that much of this information is finding its intended target.

In order to explain the comprehensive and somewhat complex functions of the Board of Grain Commissioners to farmers and others, it was felt that a coloured sound motion picture would be the most suitable medium for presenting this information. Accordingly, the National Film Board was requested to produce a twenty-minute film depicting the functions of the Board. The photography has been completed and this film is expected to be released in the Spring.

Expenditures and Revenue

Total expenditure covering operations of the Board for the fiscal year 1952-53 exclusive of the Canadian Government Elevators, amounted to \$3,367,340.53 compared with \$2,850,717.97 for the previous fiscal year. This represents an increase of eighteen per cent resulting from general increases in salaries and in almost all items of expenditure.

There was a substantial increase in revenue collected by the Board in 1952-53. Total revenue was \$3,718,087.99 which was twenty-six per cent more than collections for 1951-52 recorded at \$2,958,289.07.

Expenditures for the nine months of the 1953-54 fiscal year to December 31, 1953, totalled \$2,618,472.21 as against \$2,517,499.32 for a comparable period during 1952-53. Revenue for the same period amounted to \$2,581,067.69 as compared with \$2,480,101.11 for the previous year.

Respectfully submitted,

D. G. MCKENZIE,
Chief Commissioner.

J. VALLANCE,
Commissioner.

*Available from the Board of Grain Commissioners for Canada, Winnipeg, Manitoba.

APPENDIX A

Report of the Executive Offices

This Appendix summarizes some of the chief functions carried out by the Executive Offices and puts on record details of actions taken by the Board during the calendar year 1953. For convenience, this information is presented under the following seven headings: Complaints, Prosecutions, Defaults, Cars Out of Turn, Receipts of Wheat into Country Elevators from Railway Cars, Grain Loading Platforms, and Results of Annual Weighovers of Terminal and Eastern Elevators.

Complaints

Complaints dealt with by the Board fall into three classes: those relating to grain handling at country elevators; miscellaneous complaints in connection with grain handling and shipment from the Lakehead, and those concerning quality or weight on export shipments. In addition, there are complaints and inquiries concerning Car Order Books and interpretation of Board's Regulations and provisions of the Canada Grain Act.

Country Complaints

During the year ended December 31, 1953, there were 148 country complaints investigated as against 141 the previous year. They dealt with handling of grain at country elevators, shipment from country elevators, irregularities in Car Order Book procedure, and other operations of licensees under the Canada Grain Act. Six complaints came from Manitoba, 110 from Saskatchewan, 9 from Alberta and 23 were carried over from the previous year.

After investigation by Assistant Commissioners or by the Board, these complaints were disposed of as follows:

No grounds for complaint.....	35
Settlement effected.....	39
Outside jurisdiction of Board.....	1
Licensee fined.....	27
Defendant warned.....	24
Complaint withdrawn.....	8
Not yet disposed of.....	14
	<hr/> 148

Miscellaneous Complaints

In 1953 the Board received and dealt with 28 complaints in respect of handling of grain at terminal elevators and shipment to Eastern Canada. These related chiefly to reports of outturn shortages. In addition there were four complaints brought forward from the previous year. This compares with 24 complaints which were handled in 1952. The disposition was as follows.

	Quality	Shortage	General
No evidence.....	—	18	—
No grounds for complaint.....	1	—	—
Settlement effected.....	1	6	—
Not yet disposed of.....	1	4	1
	<hr/>	<hr/>	<hr/>
			32

Export Shipments

Fourteen complaints in respect to overseas shipments were received during the year and there were three unsettled complaints brought forward from last year. This compares with sixteen complaints on overseas shipments handled in 1952. The disposition was as follows:

	Quality	Shortage
No evidence.....	—	9
No grounds for complaint.....	5	—
Settlement effected.....	1	—
Not yet disposed of.....	2	—
		17

Prosecutions

Twenty-nine penalties for breaches of the Canada Grain Act and the Board's Regulations amounting to \$2,010 were levied and collected as follows:

Number of penalties	Contravention	Amount
2	Section 109, Canada Grain Act.....	\$ 75.00
1	Section 110, Canada Grain Act and Board Regulation No. 21....	1,000.00
26	Board Regulation No. 18.....	935.00

Defaults

There were no defaults by licensees during 1953 and no action by the Board was necessary in this connection.

Cars Out of Turn

During the 1953 calendar year a record number of cars out of turn was authorized by the Board under subsection 2 of section 68 of the Canada Grain Act for shipment of grain from country elevators. Special attention was paid to these shipments by the Grain Inspection Branch to ensure that cars were not used for unauthorized purposes. Following is a breakdown of the 2,801 cars authorized, with figures for 1952 included for comparison purposes:

Purpose	1952	1953
Grain out of condition.....	410	866
Elevators and annexes in danger of collapse.....	267	1,104
Elevators and annexes flooded.....	—	138
Seed grain.....	3	13
Grain fumigated for rusty grain beetle infestation.....	—	625
Others.....	22	55
Totals.....	702	2,801

Receipt of Wheat into Country Elevators from Railway Cars

Under section 108 of the Canada Grain Act, the Board authorized receipt of 757 car-lots of wheat into country elevators during 1953.

Grain Loading Platforms

During 1953 no applications for the building of grain loading platforms or the enlargement of existing ones were made to the Board. However, certain changes and additions were made by the railways, and the numbers of grain loading platforms and their capacities in Western Canada as at December 1, 1953, were as follows:

Province	Number of Platforms	Car Capacity
Manitoba.....	558	1,257
Saskatchewan.....	1,231	2,568
Alberta.....	721	1,426
British Columbia.....	36	89
Ontario.....	21	43
Totals as at December 1, 1953.....	2,567	5,383

Results of Annual Weighovers

The following Tables (A-1 to A-6) record overages or shortages, and excess or deficiency calculated in accordance with section 139 of the Canada Grain Act, at Public Terminal Elevators; the excesses or deficiencies at Semi-Public Terminal Elevators; results of annual weighovers of Private Terminal Elevators; and the summary of results of calculations, in accordance with section 140 of the Canada Grain Act, of overages and shortages in Western Canadian and foreign grain as revealed in the annual weighover of grain stocks in store in Eastern elevators.

Respectfully submitted,

K. HLYNKA,
Secretary.

Table A-1.—Overages and Shortages Disclosed by Weigh-overs of

Date of Weigh-over	Licensee	WHEAT		OATS	
		Overage	Shortage	Overage	Shortage
		bu.	bu.	bu.	bu.
July 29-Aug. 7, 1953.	CANADIAN GOVERNMENT ELEVATORS				
	Edmonton.....	1,474-00	—	169-20	—
	Totals.....	1,474-00	—	169-20	
	Net Totals—Overages Shortages	1,474-00	—	169-20	—

Table A-2.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by

Date of Weigh-over	Licensee	Excess		
		1 Hard	1 Northern	2 Northern
	CANADIAN GOVERNMENT ELEVATORS			
July 29-Aug. 7, 1953..	Edmonton.....	—	—	—

Grain Stored in PUBLIC TERMINAL Elevators, Crop Year 1952-53

Barley		Rye		Flaxseed		Corn	
Overage	Shortage	Overage	Shortage	Overage	Shortage	Overage	Shortage
bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
403-28	—	—	—	5-00	—	5-22	—
403-28	—	—	—	5-00	—	5-22	—
403-28	—	—	—	5-00	—	5-22	—

Weigh-overs of Grain Stored in PUBLIC TERMINAL Elevators, Crop Year 1952-53

Excess			Deficiency					
3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
2531-10	—	—	—	20-40	255-20	—	—	—

**Table A-3.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed
Fort William-Port Arthur,**

Date of Weigh-over	Licensee	Excess		
		1 Hard	1 Northern	2 Northern
		bu.	bu.	bu.
Dec. 18-23, 1952	Canadian Consolidated Grain Co. Ltd.—			
Dec. 22-31, 1952	“Empire”	—	1,478-30	—
	“Thunder Bay”	—		—
Dec. 16-20, 1952	Eastern Terminal Elevator Co. Ltd.	—	—	—
	Federal Grain Limited—			
Dec. 22-31, 1952	“Northwestern”	—	—	—
Dec. 22-29, 1952	“Stewart”	—	—	—
	Fort William Elevator Co. Ltd.—			
June 11-19, 1953	Elevator “E”	—	—	—
July 28-Aug. 4, 1953	Elevator “F”	—	—	—
Dec. 12-15, 1952	Lakehead Terminals Ltd.	—	—	—
Dec. 15-18, 1952	McCabe Grain Co. Ltd.	—	—	—
Dec. 22/52-Jan. 5/53	National Grain Co. Ltd.	—	—	—
Dec. 15-23, 1952	Ogilvie Flour Mills Co. Ltd.	—	—	—
	Saskatchewan Co-Operative Producers Limited—			
June 26-30, 1953	Terminal No. 4.	—	—	—
July 15-21, 1953	Superior Elevator Co. Ltd.	—	—	3,889-20
Dec. 16/52-Jan. 12/53	United Grain Growers Limited.	—	—	—
Dec. 18/52-Jan. 15/53	Westland Elevators Limited.	—	—	—

**Table A-4.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed
Pacific Seaboard, Churchill, Transcona**

Date of Weigh-over	Licensee	Excess		
		1 Hard	1 Northern	2 Northern
		bu.	bu.	bu.
Oct 6-10, 1952	Vancouver-New Westminster—			
	Kerr Gifford & Co. Inc. No. 1.	—	—	—
Oct 23-Nov. 3, 1952	Kerr Gifford & Co. Inc. No. 2.	—	—	—
May 12-14, 1953	Searle Grain Co. Ltd.	—	—	—
Jan 19-23, 1953	Victoria—			
	Kerr Gifford & Co. Inc.	—	—	—
Oct 13-18, 1952	Churchill, Man.—			
	National Harbours Board.	—	3,274-00	—
May 12-26, 1953	North Transcona, Man.—			
	Eastern Terminal Elevator Co. Ltd.	—	—	—
Nov. 14, 1952	Kenora, Ont.—			
	Searle Grain Co. Ltd.	—	—	—

Table A-5.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weigh-overs of Grain Stored in PRIVATE TERMINAL Elevators, Crop Year 1952-53

	Excess	Deficiency
1 Hard.....	—	—
1 Northern.....	—	—
2 Northern.....	—	—
3 Northern.....	—	—
1 C.W. Garnet.....	—	—
2 C.W. Garnet.....	—	—

No Wheat of the above grades was handled or in store in the following elevators:

Date of Weigh-over	Elevator Company	Location
July 29, 1953.....	Canada Malting Co. Ltd., No. 2.....	Calgary, Alberta
July 31, 1953.....	Canada Malting Co. Ltd., No. 3.....	Calgary, Alberta
June 4, 1953.....	Canada Malting Co. Ltd.....	Winnipeg, Manitoba
August 7, 1952.....	Canada Malting Co. Ltd.....	Port Arthur, Ontario
June 8, 1953.....	Dominion Malting Co. Ltd.....	Transcona, Manitoba
June 27, 1953.....	National Grain Co. Ltd. (D & S).....	Fort William, Ont.

Table A-6.—Overages and Shortages Disclosed by Weigh-overs of Canada Western and Foreign Grain Stored in EASTERN ELEVATORS, Crop Year 1952-53

Date of Weigh-over	Licensee	Kind of Grain	Overage	Shortage
1953			bu.	bu.
Mar. 12- Apr. 8	GODERICH— Goderich Elevator & Transit Co. Ltd.	Canada Western Wheat.....	—	2,901-00
		Canada Western Oats.....	—	7,486-07
		Canada Western Barley.....	—	3,685-10
		Canada Western Rye.....	—	54-29
		Canada Western Flaxseed.....	—	10-44
		Canada Western Sample Grain.....	*1,840	—
		Canada Western Screenings.....	—	*17,950
		U.S.A. Corn.....	—	143-09
Feb. 26	KINGSTON Canada Steamship Lines Limited.	Canada Western Wheat.....	—	9,737-40
		Canada Western Oats.....	—	501-19
		Canada Western Barley.....	—	6,662-39
		Canada Western Rye.....	—	38-11
		Canada Western Flaxseed.....	—	1,881-26
		Canada Western Sample Grain.....	—	*710
Feb. 13-19	MIDLAND— Aberdeen Elevator Co. Ltd.....	Canada Western Wheat.....	—	2,538-00
		Canada Western Oats.....	—	835-13
		Canada Western Barley.....	758-26	—
Mar. 3-18	Canadian National Railways...	Canada Western Wheat.....	—	11,201-00
		Canada Western Oats.....	—	31-15
		Canada Western Barley.....	217-45	—
		Canada Western Rye.....	—	316-01
Feb. 20- Mar. 2	Midland Simcoe Elevator Co. Ltd.	Canada Western Wheat.....	—	7,287-20
		Canada Western Oats.....	—	972-02
		Canada Western Barley.....	—	102-32

* Lbs.

Table A-6.—Overages and Shortages Disclosed by Weigh-overs of Canada Western and Foreign Grain Stored in EASTERN ELEVATORS, Crop Year 1952-53 (Continued)

Date of Weigh-over	Licensee	Kind of Grain	Overage	Shortage
1953			bu.	bu.
Mar. 2-10	PORT COLBORNE— National Harbours Board.....	Canada Western Wheat.....	—	13,192-00
		Canada Western Oats.....	—	713-29
		Canada Western Barley.....	—	22,622-45
		Canada Western Rye.....	—	1,361-04
		Canada Western Flaxseed.....	—	28-01
		U.S.A. Soybeans.....	—	396-50
Mar. 2-11	Maple Leaf Milling Co. Ltd.	Canada Western Wheat.....	—	7,161-20
		Canada Western Oats.....	—	431-03
		Canada Western Barley.....	—	118-19
		Canada Western Rye.....	—	55-46
		U.S.A. Corn.....	—	8-43
July 28- Aug. 7	PORT McNICOLL— Canadian Pacific Railway Company.	Canada Western Wheat.....	—	8,276-30
		Canada Western Oats.....	—	412-25
		Canada Western Barley.....	—	1,036-38
		Canada Western Rye.....	—	96-47
Feb. 12-25	PRESCOTT— National Harbours Board.....	Canada Western Wheat.....	—	2,321-00
		Canada Western Oats.....	—	372-00
		Canada Western Barley.....	—	1,421-13
		Canada Western Rye.....	—	97-18
		Canada Western Flaxseed.....	—	224-16
		Canada Western Mixed Grain.....	—	*500
		Canada Western Sample Grain.....	*28,560	—
		Canada Western Screenings.....	—	*70
		U.S.A. Corn.....	—	2,292-27
Mar. 25- Apr. 27	SARNIA— Sarnia Elevator Co. Ltd.....	Canada Western Wheat.....	—	12,614-10
		Canada Western Oats.....	—	5,191-08
		Canada Western Barley.....	—	1,839-29
		U.S.A. Corn.....	—	212-22
Jan. 26- Feb. 11	TORONTO— Toronto Elevators Ltd.....	Canada Western Wheat.....	—	9,134-30
		Canada Western Oats.....	—	4,472-13
		Canada Western Barley.....	—	1,584-41
		Canada Western Rye.....	—	56-20
		Canada Western Flaxseed.....	—	1,835-40
		Canada Western Sample Grain.....	—	*1,990
		U.S.A. Wheat.....	—	9-10
		U.S.A. Flaxseed.....	—	401-14
		U.S.A. Corn.....	—	935-52
		U.S.A. Soybeans.....	—	253-30
Mar. 12-24	WALKERVILLE— Hiram Walker & Sons Grain Corporation Limited.	Canada Western Wheat.....	—	4,252-40
		Canada Western Oats.....	—	431-05
		Canada Western Barley.....	—	256-40
		Canada Western Rye.....	51-19	—
		Origin Unknown—Screenings.....	—	*10
		U.S.A. Corn.....	—	74-34
Jan. 28- Feb. 11	MONTREAL— National Harbours Board.....	Canada Western Wheat.....	—	116,494-42
		Canada Western Oats.....	—	8,607-12
		Canada Western Barley.....	—	44,698-18
		Canada Western Rye.....	—	7,026-45
		Canada Western Flaxseed.....	—	2,791-37
		Canada Western Corn.....	—	31-50
		Canada Western Buckwheat.....	—	—
		Canada Western Mixed Grain.....	*478-27	—
		Canada Western Sample Grain.....	*156,570	—
		Canada Western One Feed Screenings.....	*29,170	—
		Origin Unknown—Screenings.....	—	*810
		U.S.A. Wheat.....	—	3,071-00
		U.S.A. Oats.....	—	206-27
		U.S.A. Barley.....	—	130-01
		U.S.A. Hayseed.....	—	68-55
		U.S.A. Corn.....	—	6,054-31
		U.S.A. Soybeans.....	—	625-00
		Argentine Oats.....	33-08	—

* Lbs.

86826—5

Table A-6—Overages and Shortages Disclosed by Weigh-overs of Canada Western and Foreign Grain Stored in EASTERN ELEVATORS, Crop Year 1952-53 (Concluded)

Date of Weigh-over	Licensee	Kind of Grain	Overage	Shortage
1953			bu.	bu.
Feb. 16-27	Dominion Elevator Ltd.....	Canada Western Wheat.....	—	1,875-50
		Canada Western Oats.....	—	372-33
		Canada Western Barley.....	—	686-19
		Canada Western Rye.....	—	40-29
		Canada Western Corn.....	—	1-48
		Canada Western Mixed Grain.....	—	*299
		Canada Western Sample Grain.....	—	*8,520
		Canada Western One Feed Screenings	—	*21,800
		U.S.A. Corn.....	—	1,174-09
		Argentine Oats.....	—	—
Jan. 10-16	QUEBEC— National Harbours Board Elevator	Canada Western Wheat.....	—	14,859-20
		Canada Western Oats.....	—	1,207-00
		Canada Western Barley.....	—	1,095-08
		Canada Western Flaxseed.....	—	17-05
		Canada Western Mixed Grain.....	—	*310
		Canada Western Sample Grain.....	—	*740
		Canada Western One Feed Screenings	—	*1,270
		U.S.A. Corn.....	—	179-20
Jan. 19-26	SOREL— North American Elevators Ltd.	Canada Western Wheat.....	—	7,728-10
		Canada Western Oats.....	—	98-27
		Canada Western Barley.....	—	5,655-26
		Canada Western Rye.....	—	225-37
		Canada Western Mixed Grain.....	—	*51
		Canada Western One Feed Screenings	—	*70
Jan. 19-25	THREE RIVERS— Three Rivers Grain & Elevator Co. Ltd.	Canada Western Wheat.....	—	14,481-30
		Canada Western Oats.....	—	42-18
		Canada Western Barley.....	—	65-34
		Canada Western Sample Grain.....	—	*860
		U.S.A. Corn.....	—	1-14
Sept. 26-27 1952	HALIFAX— National Harbours Board Elevator	Canada Western Wheat.....	—	4,337-00
		Canada Western Oats.....	—	27-19
		Canada Western Barley.....	—	1,367-17
		Canada Western Flaxseed.....	—	29-38
Sept. 30 1952	St. JOHN— Canadian National Railways Elevator.....	Canada Western Wheat.....	—	658-20
		Canada Western Oats.....	—	10-00
		Canada Western Barley.....	—	10-10
June 30- 1953	Canadian National Railways Elevator.	Canada Western Wheat.....	—	1,496-50
Sept. 29- 1952	W. St. JOHN— Canadian Pacific Railway Elevator "B"	Canada Western Wheat.....	—	2,359-50
		Canada Western Oats.....	—	151-05
		Canada Western Barley.....	—	574-15
		Canada Western Flaxseed.....	—	117-25
		Canada Western Buckwheat.....	—	7-11
June 30- 1953	Canadian Pacific Railway Elevator "B"	Canada Western Wheat.....	—	4,668-50
		Canada Western Barley.....	—	556-29
		Canada Western Rye.....	—	39-01
		Canada Western Flaxseed.....	—	24-55
		Canada Western Peas.....	—	2-50
Sept. 29- 1952	Canadian Pacific Railway Elevator "H"	Canada Western Wheat.....	—	3,207-20
		Canada Western Oats.....	—	177-29
		Canada Western Barley.....	—	1,179-27
		Canada Western Flaxseed.....	—	164-14
June 30- 1953	Canadian Pacific Railway Elevator "H"	Canada Western Wheat.....	—	6,125-40
		Canada Western Barley.....	—	1,303-24
		Canada Western Rye.....	—	81-22
		Canada Western Flaxseed.....	—	560-02
		Canada Western Buckwheat.....	—	17-07
		Canada Western Peas.....	—	2-20
		Canada Western Refuse Screenings..	—	*240

*Lbs.

APPENDIX B

Committee on Western Grain Standards, 1953

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners	
J. Vallance, Commissioner, Board of Grain Commissioners	
R. W. Milner, Commissioner, Board of Grain Commissioners	
A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners	
Dr. J. A. Anderson, Chief Chemist, Grain Research Laboratory	
J. Forsyth, Chairman, Grain Appeal Tribunal, Winnipeg	
C. R. Manahan, Chairman, Grain Appeal Tribunal, Edmonton	
P. J. Marples, Chairman, Grain Appeal Tribunal, Calgary	
Dr. C. H. Goulden, Dominion Cerealist	
W. A. Hastings, representing the millers of wheat flour	
George Bennett.....	} Representing grain growers in Alberta
W. H. Fairfield.....	
Uri Powell.....	
B. S. Plumer.....	
J. H. Harrison.....	} Representing grain growers in Saskatchewan
A. P. Gleave.....	
J. Wellbelove.....	
L. L. Gray.....	
N. W. Strelioff.....	} Representing grain growers in Manitoba
W. J. Parker.....	
R. Barrett.....	
Ray Mitchell.....	
G. Constable, representing grain growers in British Columbia	
Nelson Young, representing Plant Products Division, Department of Agriculture	

Committee on Eastern Grain Standards, 1953

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners	
J. Vallance, Commissioner, Board of Grain Commissioners	
R. W. Milner, Commissioner, Board of Grain Commissioners	
A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners	
N. Clare Wight, representing Montreal Board of Trade	
E. D. Sullivan, representing Toronto Board of Trade	
E. G. Butler, representing exporters of grain	
F. H. Dunsford.....	} Representing millers of wheat in the Eastern Division
H. Norman Davis.....	
Hugh Bailey.....	} Representing grain growers in Ontario
J. E. Nephew.....	
G. C. Nichols, representing growers of corn	
E. B. Paterson, Additional	
John W. Ham, Additional	

APPENDIX C

Grain Appeal Tribunals

<i>Winnipeg</i>	<i>Calgary</i>	<i>Edmonton</i>
J. Forsyth (Chairman)	P. J. Marples (Chairman)	C. R. Manahan (Chairman)
Grant Hammond	T. F. Allison	C. C. Young
Wm. E. McLeod	J. Tranter	M. G. Wood
A. F. Moore	W. M. Pringle	J. R. MacRae
James Gregory	W. G. McLeod	T. Stickney
R. C. Sproule	E. J. Munson	J. A. Kyle
J. F. Lazenby	G. C. Arbuthnott	H. A. Haggarty
D. K. Mills	A. Watson	C. E. Sage
G. I. Rocan	G. R. Deeton	Ross Saunders
E. Attree (Secretary)		D. K. McKay (Secretary)
<i>Toronto</i>		<i>Montreal</i>
John W. Ham		P. J. Smith (Chairman)
C. H. Coatsworth		A. W. Brown
R. C. Pratt		T. B. Earle
C. W. Heimbecker		J. A. Byrne
W. A. Robertson		J. M. Vittie
E. D. Sullivan		G. D. Robinson
K. F. Wadsworth		Helen M. Deuel (Secretary)
J. C. Noseworthy (Secretary)		

For information on Appeals of Carlot Inspections refer to Appendix F, Table F-7.

APPENDIX D

Report of Licence and Bonding Branch

This Appendix presents information on licensing and bonding operations for the crop year August 1, 1952 to July 31, 1953, and reports collections made by this office of the one per cent levy under the Prairie Farm Assistance Act for the same period. Additional preliminary information on licensing is given for the 1953-54 crop year to December 1, 1953.

Licences and Bonds

In the 1952-53 crop year the Licence and Bonding office processed 5,555 applications from 120 firms and individuals. There were 5,537 licences issued, 15 transferred and three applications were withdrawn. The applications by kind of licence were as follows:

Kind	Applications		Licences	
	Received	Withdrawn	Issued	Transferred
Public Country Elevators.....	5,355	2	5,353	12
Private Country Elevators.....	10	—	10	—
Mill Elevators.....	39	—	39	1
Public Terminal Elevators.....	6	—	6	—
Semi-Public Terminal Elevators.....	36	—	36	2
Private Terminal Elevators.....	7	—	7	—
Eastern Elevators.....	29	—	29	—
Track Buyers.....	21	—	21	—
Commission Merchants.....	27	—	27	—
Grain Dealers.....	10	1	9	—
Transfers.....	15	—	—	—
	5,555	3	5,537	15

In addition to the above applications for regular elevator licences, the licensing office also processed 82 applications for authority to operate buildings as "Special Annexes" under power granted by Order-in-Council P.C. 5122. Of these applications, 78 authorities were granted and four were rejected or withdrawn.

Seventeen licences were cancelled and twenty-three were suspended for various periods. Cancellations were for reasons such as conversion of elevators to annexes, or dismantling structures which were in poor condition; and suspensions were generally for repairs.

The total licensed storage capacity at July 31, 1953, with 5,456 elevator licences in force, was 551,074,070 bushels, of which 3,288,910 was in special annexes.

Guarantee bonds in the amount of \$29,314,686.50 executed by seventeen of the approved surety companies were deposited with the Board as security under section 79 of the Canada Grain Act to cover operations of the licensees during the 1952-53 crop year. In addition, five licensees deposited negotiable Government bonds with par value of \$21,000.00 in lieu of furnishing the usual form of surety bonds.

For the first portion of the 1953-54 crop year to December 1, 1953, 5,525 licences were issued covering a total storage capacity of 561,505,208 bushels, of which 4,411,738 bushels was special annex space. This is an increase of 22,215,348 bushels

since December 1, 1952. The storage capacity comprises 5,452 buildings classed as elevators under the Canada Grain Act and 82 buildings other than elevators which were authorized for operation under P.C. 5122.

Data on the kind of licences and the storage capacity of elevators are presented for the past five years (1949-1953) in Table D-1 of this Appendix. Comparative figures at five-year intervals since 1890 may be found on Page 18 of the Board's Annual Report for 1951. Further detailed information on elevators, licensed storage capacities and other relative data may be found in a booklet entitled *Grain Elevators in Canada** compiled by the Board of Grain Commissioners.

Collection of One Per Cent Levy

The collection of the one per cent levy made under the Prairie Farm Assistance Act for the crop year 1952-53 as recorded at this office amounted to \$10,874,311.99 as compared with \$8,967,076.24 collected during the previous crop year. The total collections since the inception of the Act in August, 1939 to July 31, 1953, amount to \$75,230,800.70. More detailed information on Prairie Farm Assistance Act collections is given in Tables D-2 and D-3 of this Appendix.

Respectfully submitted,

C. F. SPITTLE,

Licensing Officer.

* Obtainable from the Queen's Printer, Ottawa.

Table D-1.—Number and Kind of Licences Issued and Licensed Storage Capacity, as at December 1st Each Year for the Past Five Years

Kind of Licence	1953	1952	1951	1950	1949
NUMBER OF LICENCES					
Public Country Elevator.....	5,326	5,341	5,354	5,309	5,076
Private Country Elevator.....	10	10	10	9	9
Mill Elevator.....	40	38	38	37	37
Public Terminal Elevator.....	6	6	6	6	6
Semi-Public Terminal Elevator.....	35	36	35	34	33
Private Terminal Elevator.....	6	7	7	8	7
Eastern Elevator.....	29	29	29	29	29
Track Buyer.....	21	21	22	25	25
Commission Merchant.....	26	27	28	32	31
Grain Dealer.....	9	9	11	12	13
Totals.....	5,508	5,524	5,540	5,501	5,266
LICENSED CAPACITY					
thousands of bushels					
Public Country Elevator.....	318,224	306,484	290,504	278,416	263,753
Private Country Elevator.....	349	350	354	323	448
Mill Elevator.....	13,495	13,426	13,306	13,306	13,306
Public Terminal Elevator.....	18,350	18,350	18,350	18,350	18,350
Semi-Public Terminal Elevator.....	114,523	108,455	114,524	105,991	104,342
Private Terminal Elevator.....	7,220	7,295	7,295	7,330	7,180
Eastern Elevator.....	84,929	84,930	82,530	82,514	82,514
Totals.....	557,093	539,290	526,863	506,230	489,893

Table D-2.—Amounts Collected and Grain Purchased under the One Per Cent Levy, Prairie Farm Assistance Act, 1939, for period August 1, 1952 to July 31, 1953

Province	Wheat	Oats	Barley	Rye	Total
AMOUNTS COLLECTED					
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Manitoba.....	760,092 22	171,692 64	479,449 70	12,681 83	1,423,916 39
Saskatchewan.....	5,297,496 66	384,910 49	556,231 92	132,255 28	6,370,894 35
Alberta.....	2,146,725 15	268,520 78	600,750 49	58,388 08	3,074,384 50
Totals.....	8,204,314 03	825,123 91	1,636,432 11	203,325 19	10,869,195 24
Amount not allocated to provinces.....					5,116 75
Total collections August 1, 1952 to July 31, 1953.....					10,874,311 99
GRAIN PURCHASES					
thousands of bushels					
Manitoba.....	45,804	24,271	43,991	882	114,948
Saskatchewan.....	336,993	54,600	56,546	9,510	457,649
Alberta.....	136,297	39,035	60,903	4,472	240,707
Totals.....	519,094	117,906	161,440	14,864	813,304

Table D-3.—Summary of Collections of One Per Cent Levy under the Prairie Farm Assistance Act, since the inception of the Act to July 31, 1953, listed by Year and Province

Crop Year	Manitoba	Saskatchewan	Alberta	Not Allocated	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1939-40.....	333,453 13	1,344,208 23	743,121 61	724 40	2,421,507 37
1940-41.....	354,813 76	1,360,540 00	866,831 79	502 32	2,582,687 87
1941-42.....	339,969 87	711,869 33	407,642 45	272 05	1,459,753 70
1942-43.....	481,974 50	1,536,146 00	710,632 53	322 51	2,729,075 54
1943-44.....	779,490 76	2,743,544 09	1,191,300 92	371 01	4,714,706 78
1944-45.....	754,366 36	3,218,572 23	1,412,417 31	230 71	5,385,586 61
1945-46.....	575,408 69	1,977,735 42	873,082 60	131 69	3,426,358 40
1946-47.....	845,631 86	2,703,357 17	1,644,706 41	112 20	5,193,807 64
1947-48.....	764,744 37	2,727,187 90	1,624,237 42	148 51	5,116,318 20
1948-49.....	1,120,741 27	3,417,480 86	2,084,088 52	6,185 87	6,628,496 52
1949-50.....	1,355,660 07	4,525,628 79	2,515,568 28	197 64	8,397,054 78
1950-51.....	1,442,138 08	3,890,444 68	2,001,322 58	153 72	7,334,059 06
1951-52.....	1,331,548 73	5,075,404 05	2,560,006 74	116 72	8,967,076 24
1952-53.....	1,423,916 39	6,370,894 35	3,074,384 50	5,116 75	10,874,311 99
Totals.....	11,903,857 84	41,603,013 10	21,709,343 66	14,586 10	75,230,800 70

APPENDIX E

Report of Registration Branch

This Appendix presents statements showing total registrations and registrations for cancellation of warehouse receipts for the 1952-53 crop year. Average totals based on the previous ten crop years are included for comparison purposes. This information is contained in Tables E-1 and E-2. Table E-3 presents a summary of fees collected at different points during 1952-53 and compares the amounts with the average for the previous ten years.

For the second consecutive year all records for volume of handlings of the various registration procedures have been broken as a result of a crop which was the largest in history. Final totals for the 1952-53 crop year show increases of 61 percent for the Western Division and 80 percent for the Eastern Division over the average for ten years. While there was a notable reduction in the quantities of grain which necessitated adjustments of warehouse receipts as a result of drying, there was a corresponding increase in the volume of grain unloaded and in outward shipments, so that the registration service required by licensees of 42 public and semi-public terminal elevators in the Western Division and 29 Eastern Elevators remained at peak levels throughout the year.

In addition to the regular registration service, this Branch was responsible for the maintenance of records of grade handlings and of outstanding warehouse receipts and for the preparation of official statements required for use in connection with the annual weighover of terminal and Eastern elevators.

Respectfully submitted,

C. J. BROWNSCOMBE,

Registrar.

Table E-1.—Warehouse Receipt Registrations for Receipts and Shipments at Public and Semi-Public Terminal Elevators in the Western Division, by Point and Grain, Crop Year 1952-53 and 10 Year Average (1942-43 to 1951-52)

Point	Grain	Crop Year 1952-53		10 Year Average	
		Registered	Registered for Cancellation	Registered	Registered for Cancellation
WESTERN DIVISION—		thousands of bushels			
Winnipeg.....	Wheat.....	303,705	288,688	210,505	222,199
	Oats.....	92,852	99,022	71,272	73,099
	Barley.....	116,406	118,084	50,526	49,634
	Flax.....	7,397	7,523	6,905	6,807
	Rye.....	15,316	11,856	7,839	7,665
	Mixed Grain.....	2,399	1,213	950	583
	Corn.....	19	19	71	77
	Other Grains.....	30	30	15	14
Vancouver.....	Wheat.....	107,990	107,530	49,474	50,524
	Oats.....	1,932	3,357	2,447	3,102
	Barley.....	17,116	18,058	2,252	2,095
	Flax.....	1	—	47	55
	Rye.....	4	2	34	34
	Mixed Grain.....	67	113	41	30
	Corn.....	5	1,506	287	137
	Other Grains.....	—	—	6	5
Calgary.....	Wheat.....	2,141	651	639	828
	Oats.....	29	31	170	170
	Barley.....	1,624	1,499	1,155	1,146
	Flax.....	1	—	18	21
	Rye.....	2	2	16	16
	Mixed Grain.....	—	5	3	3
	Corn.....	—	—	4	4
	Other Grains.....	—	—	—	—
Edmonton.....	Wheat.....	2,267	1,223	929	1,003
	Oats.....	318	300	427	419
	Barley.....	170	179	139	138
	Flax.....	—	1	17	17
	Rye.....	—	—	1	1
	Mixed Grain.....	—	27	1	2
	Corn.....	5	4	6	6
	Other Grains.....	—	—	—	—
Lethbridge.....	Wheat.....	1,115	108	116	229
	Oats.....	1	1	—	1
	Barley.....	2	2	3	1
	Flax.....	—	—	26	26
	Rye.....	—	—	—	—
	Mixed Grain.....	—	1	—	—
	Other Grains.....	—	—	—	—
Moose Jaw.....	Wheat.....	3,548	234	1,198	1,560
	Oats.....	23	23	62	66
	Barley.....	19	19	25	37
	Flax.....	2	2	156	142
	Rye.....	18	18	1	2
	Mixed Grain.....	—	2	2	10
	Corn.....	—	—	4	1
	Other Grains.....	—	—	159	144
Saskatoon.....	Wheat.....	3,721	1,474	1,158	1,453
	Oats.....	1	3	93	100
	Barley.....	—	2	26	25
	Flax.....	—	—	152	152
	Rye.....	—	—	—	—
	Mixed Grain.....	—	10	5	6
	Other Grains.....	139	129	38	35

Table E-2.—Summary of Warehouse Receipt Registrations for Receipts and Shipments, by Grains, for Eastern and Western Divisions, Crop Year 1952-53 and 10 Year Average (1942-43 to 1951-52)

Point	Grain	Crop Year 1952-53		10 Year Average.	
		Registered	Registered for Cancellation	Registered	Registered for Cancellation
WESTERN DIVISION—		thousands of bushels			
All Points.....	Wheat.....	424,487	399,908	264,019	277,796
	Oats.....	95,156	102,737	74,471	76,957
	Barley.....	135,337	137,843	54,126	53,076
	Flax.....	7,401	7,527	7,321	7,220
	Rye.....	15,340	11,878	7,891	7,718
	Mixed Grain.....	2,466	1,371	1,002	634
	Corn.....	29	1,529	372	225
	Other Grains.....	169	159	218	198
Total—All Grains.....		680,385	662,952	409,420	423,824
EASTERN DIVISION—					
Montreal.....	Wheat.....	438,281	427,366	275,487	278,264
	Oats.....	50,089	49,880	40,256	39,977
	Barley.....	157,870	162,926	34,299	33,419
	Flax.....	11,224	11,155	5,490	5,494
	Rye.....	8,079	7,265	5,301	5,229
	Mixed Grain.....	821	676	319	323
	Sunflower Seed.....	—	—	11	11
	Corn.....	10,721	10,650	12,279	12,952
	Screenings.....	1,488	1,417	879	877
	Peas.....	59	59	16	22
	Beans.....	2,459	2,683	889	857
	Buckwheat.....	478	403	87	87
	Other Grains.....	—	6	194	193
Total—All Grains.....		681,569	674,486	375,507	377,705

Table E-3.—Summary of Registration Fees Collected, Eastern and Western Divisions, Crop Year 1952-53 and 10 Year Average (1942-43 to 1951-52)

	Crop Year 1952-53	10-Year Average
	\$ cts.	\$ cts.
WESTERN DIVISION—		
Winnipeg.....	42,582 34	28,326 44
Vancouver.....	10,307 19	4,422 85
Calgary.....	239 38	167 73
Edmonton.....	179 73	124 19
Lethbridge.....	49 17	16 17
Moose Jaw.....	156 18	142 73
Saskatoon.....	219 15	129 79
Total.....	53,733 14	33,329 90
EASTERN DIVISION—		
Montreal.....	13,560 49	7,532 17
Grand Total.....	67,293 63	40,862 07

APPENDIX F

Report of Grain Inspection Branch

This Appendix records the work of the Board's Inspection Branch during the crop year ended July 31, 1953. The report covers sampling and inspection service on carlots and cargo shipments in the Western and Eastern Divisions, grading of samples "Subject to Grade and Dockage", and other grain inspection services.

The 1952 harvest started in Southern Manitoba and central areas of Saskatchewan in the third week of July. Owing to very dry conditions the first carlots of wheat contained a considerable amount of split and cracked kernels. The presence of this degrading factor was brought to the attention of producers through a press report and as harvesting progressed, it was practically eliminated presumably by appropriate adjustments of combines. The three prairie provinces harvested a bumper crop of all cereal grains with high weights per bushel and good average quality, except for small areas of Northern Saskatchewan and Alberta where frost damage occurred.

In the Eastern Division the harvest of winter wheat started in the Essex area the first week of July—a week earlier than usual. This wheat was of exceptionally high quality with low moisture and an average weight per bushel of 63 pounds. In the area East of Chatham some rain accompanied by hot humid weather caused sprouting, resulting in a decrease in bushel weight and in grade. All other crops were harvested under ideal conditions with yield and quality above average.

A record number of carlots of grain was inspected in the Western Division. The total for 1952-53 was 402,407 as compared with 360,498 carlots for 1951-52, and a 10-year average (1942-43 to 1951-52) of 275,462 carlots.

Respectfully submitted,

A. F. DOLLERY,
Chief Grain Inspector.

WESTERN DIVISION

Table F-1.—Primary Carlot Inspections from August 1, 1952 to July 31, 1953, by Grains, compared with 1951-52 and 10-year average 1942-43 to 1951-52

	10-Year Average	1951-52	1952-53	10-Year Average	1951-52	1952-53
	Number of carlots			Percentage of total		
Wheat.....	185,927	249,112	275,771	67.5	69.1	68.5
Oats.....	41,524	46,063	40,649	15.1	12.8	10.1
Barley.....	36,593	55,005	70,850	13.3	15.3	17.6
Rye.....	4,696	5,391	8,221	1.7	1.5	2.0
Flaxseed.....	5,619	4,021	5,148	2.0	1.1	1.3
Mixed Grain.....	484	470	1,125	0.2	0.1	0.3
Corn.....	100	39	107	*	*	*
Buckwheat.....	7	30	93	*	*	*
Screenings.....	435	333	381	0.2	0.1	*
Sunflower Seeds.....	23	—	3	*	—	*
Rapeseed.....	†	9	15	*	*	*
Peas.....	54	25	39	*	*	*
Soybeans.....	†	—	5	*	—	*
Totals.....	275,462	360,498	402,407	100.0	100.0	100.0

*Less than 0.05%.

†Too few to record.

Table F-2.—Primary Carlot Inspections from August 1, 1952 to July 31, 1953, by Points, compared with 1951-52 and 10-year average 1942-43 to 1951-52

	10-Year Average	1951-52	1952-53	10-Year Average	1951-52	1952-53
	Number of carlots			Percentage of total		
Winnipeg.....	210,314	250,844	292,997	76.3	69.6	72.8
Calgary.....	24,344	42,302	43,375	8.8	11.7	10.8
Edmonton.....	22,178	39,384	43,892	8.1	10.9	10.9
Moose Jaw.....	4,906	5,246	5,394	1.8	1.5	1.3
Saskatoon.....	5,982	6,778	7,297	2.2	1.9	1.8
Lethbridge.....	577	628	92	0.2	0.2	†
Medicine Hat.....	3,461	3,293	3,536	1.3	0.9	0.9
Vancouver.....	1,755	7,870	861	0.6	2.2	0.2
Churchill.....	*1,943	4,153	4,963	0.7	1.1	1.2
Totals.....	275,460	360,498	402,407	100.0	100.0	100.0

*Cars inspected during last six years only.

†Less than 0.05%.

Table F-3.—Primary Carlot Inspections from August 1, 1952 to July 31, 1953, by Grain and Grades

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT			
1 Manitoba Hard.....	49	0.02	—
1 Manitoba Northern.....	19,587	7.31	—
2 Manitoba Northern.....	87,345	32.62	—
3 Manitoba Northern.....	47,884	17.88	—
4 Manitoba Northern.....	26,574	9.92	—
No. 4 Special.....	45	0.02	—
No. 5.....	28,614	10.68	—
No. 6.....	7,687	2.87	—
Feed.....	1,222	0.46	—
Sample.....	241	0.09	—
Smutty.....	339	0.13	—
Tough.....	45,359	16.94	—
Damp.....	348	0.13	—
Rejected.....	2,486	0.93	—
No. 5 Special.....	3	—	—
Condemned.....	2	—	—
Total Red Spring Wheat.....	267,785	100.00	97.0

Table F-3.—Primary Carlot Inspections from August 1, 1952 to July 31, 1953, by Grain and Grades—continued

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT—concluded			
2 Canada Western Garnet.....	101	5.48	—
3 Canada Western Garnet.....	1,374	74.48	—
Smutty Canada Western Garnet.....	6	0.33	—
Tough Canada Western Garnet.....	333	18.09	—
Damp Canada Western Garnet.....	15	0.81	—
Rejected Canada Western Garnet.....	15	0.81	—
Total Garnet Wheat.....	1,844	100.00	0.7
1 Canada Western Amber Durum.....	2	0.04	—
2 Canada Western Amber Durum.....	418	8.03	—
3 Canada Western Amber Durum.....	2,991	57.46	—
4 Canada Western Amber Durum.....	919	17.71	—
5 Canada Western Amber Durum.....	172	3.30	—
6 Canada Western Amber Durum.....	19	0.37	—
Smutty Canada Western Amber Durum.....	11	0.22	—
Tough Canada Western Amber Durum.....	406	7.80	—
Damp Canada Western Amber Durum.....	9	0.17	—
Rejected Canada Western Amber Durum.....	219	4.21	—
Sample Canada Western Amber Durum.....	36	0.69	—
Total Amber Durum Wheat.....	5,202	100.00	1.9
1 Canada Western Soft White Spring.....	8	2.95	—
2 Canada Western Soft White Spring.....	174	64.21	—
3 Canada Western Soft White Spring.....	64	23.62	—
4 Canada Western Soft White Spring.....	1	0.37	—
Tough Canada Western Soft White Spring.....	19	7.01	—
Rejected Canada Western Soft White Spring.....	4	1.47	—
No. 5 Special Soft White Spring.....	1	0.37	—
Total Soft White Spring Wheat.....	271	100.00	0.1
1 Canada Western Mixed Wheat.....	4	1.02	—
2 Canada Western Mixed Wheat.....	4	1.02	—
3 Canada Western Mixed Wheat.....	52	13.23	—
4 Canada Western Mixed Wheat.....	21	5.34	—
5 Canada Western Mixed Wheat.....	219	55.73	—
6 Canada Western Mixed Wheat.....	17	4.33	—
Tough Canada Western Mixed Wheat.....	57	14.50	—
Smutty Canada Western Mixed Wheat.....	1	0.25	—
Rejected Canada Western Mixed Wheat.....	18	4.58	—
Total Mixed Wheat.....	393	100.00	0.2
1 Alberta Red Winter.....	74	25.72	—
2 Alberta Winter.....	129	46.38	—
3 Alberta Winter.....	34	13.77	—
4 Alberta Winter.....	8	2.90	—
Tough Alberta Winter.....	6	2.18	—
Smutty Alberta Winter.....	10	3.62	—
Rejected Alberta Winter.....	13	4.71	—
Sample Alberta Winter.....	2	0.72	—
Total Alberta Winter Wheat.....	276	100.00	0.1
Total All Wheats.....	275,771	—	100.00
Grade	Carlots	Percentage	

OATS

1 Canada Western.....	11	0.02
2 Canada Western.....	193	0.47
Extra 3 Canada Western.....	801	1.97

Table F-3.—Primary Carlot Inspections from August 1, 1952 to July 31, 1953, by Grain and Grades—continued

Grade	Carlots	Percentage
OATS—Concluded		
3 Canada Western.....	4,060	9.99
Extra 1 Feed.....	7,125	17.53
1 Feed.....	21,852	53.76
2 Feed.....	3,157	7.77
3 Feed.....	727	1.79
Mixed Feed Oats.....	44	0.11
Rejected Oats.....	345	0.85
Sample.....	431	1.06
Tough.....	1,891	4.65
Damp.....	12	0.03
Total Oats.....	40,649	100.00

BARLEY

1 Canada Western Six Row.....	2	—
2 Canada Western Six Row.....	1,877	2.65
3 Canada Western Six Row.....	19,699	27.80
4 Canada Western Six Row.....	2,469	3.48
1 Canada Western Two Row.....	2	—
2 Canada Western Two Row.....	303	0.44
3 Canada Western Two Row.....	1,699	2.40
2 Canada Western Yellow.....	13	0.02
3 Canada Western Yellow.....	44	0.06
1 Feed.....	19,256	27.18
2 Feed.....	13,810	19.49
3 Feed.....	3,316	4.68
Rejected.....	245	0.35
Sample.....	208	0.29
Tough.....	7,718	10.89
Damp.....	188	0.27
Condemned.....	1	—
Total Barley.....	70,850	100.00

FLAX

1 Canada Western.....	3,975	77.21
2 Canada Western.....	753	14.63
3 Canada Western.....	246	4.78
4 Canada Western.....	38	0.74
Rejected.....	3	0.05
Sample.....	42	0.78
Tough.....	87	1.73
Damp.....	2	0.04
Flax and Broken Grain.....	2	0.04
Total Flax.....	5,148	100.00

RYE

1 Canada Western.....	39	0.47
2 Canada Western.....	2,385	29.04
3 Canada Western.....	3,661	44.52
4 Canada Western.....	426	5.16
Ergoty Rye.....	894	10.16
Rejected.....	26	0.32
Tough.....	820	9.97
Damp.....	15	0.18
Sample.....	15	0.18
Total Rye.....	8,221	100.00

Table F-3.—Primary Carlot Inspections from August 1, 1952 to July 31, 1953, by Grain and Grades—concluded

	Carlots	Percentage
MIXED GRAIN		
1 Canada Western.....	149	13.24
2 Canada Western.....	102	9.07
3 Canada Western.....	366	32.53
4 Canada Western.....	150	13.33
Tough.....	235	20.89
Damp.....	20	1.78
Sample.....	83	7.38
Rejected.....	20	1.78
Total Mixed Grain.....	1,125	100.00
CORN		
1 Canada Western Yellow.....	7	6.54
2 Canada Western Yellow.....	28	26.18
3 Canada Western Yellow.....	30	28.05
4 Canada Western Yellow.....	16	14.95
5 Canada Western Yellow.....	4	3.74
Tough.....	16	14.95
Damp.....	1	0.93
Moist.....	1	0.93
Wet.....	1	0.93
Sample.....	3	2.80
Total Corn.....	107	100.00
Buckwheat.....	93	—
Screenings.....	381	—
Sunflower Seeds.....	3	—
Soybeans.....	5	—
Peas.....	39	—
Rapeseed.....	15	—
Grand Total.....	402,407	—

Table F-4.—Carlots of Tough, Damp and Straight Grain Inspected at Primary Inspection Points, August 1, 1952 to July 31, 1953

Grain	Tough	Damp	Tough and Damp	Straight	Total
Carlots					
Wheat.....	46,180	372	46,552	229,219	275,771
Oats.....	1,891	12	1,903	38,746	40,649
Barley.....	7,718	188	7,906	62,944	70,850
Rye.....	820	15	835	7,386	8,221
Flaxseed.....	87	2	89	5,059	5,148
Others.....	251	21	272	1,496	1,768
All Grains.....	56,947	610	57,557	344,850	402,407
Percentage of Total					
	%	%	%	%	%
Wheat.....	16.7	0.1	16.8	83.2	100
Oats.....	4.7	*	4.7	95.3	100
Barley.....	10.9	0.3	11.2	88.8	100
Rye.....	10.0	0.2	10.2	89.8	100
Flaxseed.....	1.7	*	1.7	98.3	100
Others.....	14.2	1.2	15.4	84.6	100
All Grains.....	14.2	0.2	14.4	85.6	100

*Less than 0.05%.

Table F-5.—Number of Two Pound Samples "Subject to Grade and Dockage" Inspected During the Crop Year 1952-53 Compared with the Crop Year 1951-52

Point	1951-52	1952-53
	Number of Samples	
Winnipeg.....	17,995	12,525
Calgary.....	1,082	1,078
Edmonton.....	600	506
Moose Jaw.....	566	415
Saskatoon.....	939	884
Lethbridge.....	2,077	656
Medicine Hat.....	123	18
Totals.....	23,391	16,082

Table F-6.—Carlots Re-inspected from August 1, 1952 to July 31, 1953

Point	In-spected	Re-inspected	Un-changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered
	Number of Carlots						
Winnipeg.....	292,997	42,650	25,014	8,956	960	1,045	6,675
Calgary.....	43,375	6,131	1,810	2,558	97	279	1,387
Edmonton.....	43,892	9,445	3,562	2,377	110	324	3,072
Saskatoon.....	7,297	461	421	38	1	—	1
Moose Jaw.....	5,394	356	310	45	1	—	—
Medicine Hat.....	3,536	15	4	9	1	—	1
Lethbridge.....	92	—	—	—	—	—	—
Vancouver.....	861	219	204	15	—	—	—
Churchill.....	4,963	—	—	—	—	—	—
Totals.....	402,407	59,277	31,323	13,998	1,170	1,648	11,136
	Percentage of Re-inspections						
		%	%	%	%	%	%
Winnipeg.....	—	100	58.6	21.0	2.3	2.5	15.6
Calgary.....	—	100	29.5	41.7	1.6	4.6	22.6
Edmonton.....	—	100	37.7	25.2	1.2	3.4	32.5
Saskatoon.....	—	100	91.3	8.3	0.2	—	0.2
Moose Jaw.....	—	100	87.1	12.6	0.3	—	—
Medicine Hat.....	—	100	26.6	60.0	6.7	—	6.7
Lethbridge.....	—	—	—	—	—	—	—
Vancouver.....	—	100	93.2	6.8	—	—	—
Churchill.....	—	—	—	—	—	—	—
Totals.....	—	100	52.8	23.6	2.0	2.8	18.8
	Percentage of Total Inspections						
	%	%	%	%	%	%	%
Winnipeg.....	100	14.6	8.5	3.1	0.3	0.4	2.3
Calgary.....	100	14.1	4.2	5.9	0.2	0.6	3.2
Edmonton.....	100	21.5	8.1	5.4	0.3	0.7	7.0
Saskatoon.....	100	6.3	5.8	0.5	*	—	*
Moose Jaw.....	100	6.6	5.8	0.8	*	—	—
Medicine Hat.....	100	0.4	0.1	0.3	*	—	*
Lethbridge.....	100	—	—	—	—	—	—
Vancouver.....	100	25.4	23.7	1.7	—	—	—
Churchill.....	100	—	—	—	—	—	—
Totals.....	100	14.7	7.8	3.5	0.3	0.4	2.7

*Less than 0.05%.

Table F-7.—Summary of Carlot Inspections Appealed during the Crop Year 1952-53

Item	Winnipeg		Edmonton		Calgary		Total	
	Cars	Percent	Cars	Percent	Cars	Percent	Cars	Percent
Left as Graded....	629	93.5	585	87.0	530	82.3	1,744	87.68
Grades Raised....	44	6.5	86	12.8	112	17.4	242	12.17
Grades Lowered....	—	—	1	0.2	2	0.3	3	0.15
Totals.....	673	100.0	672	100.0	644	100.0	1,989	100.00
Total Cars Inspected.....							402,407	100.00
Total Appeals.....							1,989	0.49
Total Grades Changed.....							245	0.06

Table F-8.—Quantities of the Various Grains Inspected and Shipped by Vessel During the Crop Year 1952-53

Grain	Fort William and Port Arthur	Vancouver and Victoria	Prince Rupert	Churchill	Total
	bu.	bu.	bu.	bu.	bu.
Wheat.....	251,841,968	100,773,363	3,961,725	8,887,622	365,464,678
Oats.....	81,205,482	1,228,928	—	—	82,434,410
Barley.....	109,089,269	6,854,892	7,684,474	—	123,628,635
Flaxseed.....	6,057,004	—	—	—	6,057,004
Rye.....	10,676,913	—	—	—	10,676,913
Mixed Grain*.....	402,918	—	—	—	402,918
Screenings*.....	4,286,319	54,880	9,820	—	4,351,019
Barley—U.S.A.....	—	2,234,583	—	—	2,234,583
Corn—U.S.A.....	—	1,375,960	—	—	1,375,960
Sample Grain*.....	94,595	32,255	—	—	126,850
Totals.....	463,654,468	112,554,861	11,656,019	8,887,622	596,752,970

*In bushels of 50 lb.

**Table F-9.—Outward Cars Inspected—Crop Year August 1, 1952 to July 31, 1953,
Out of Public, Semi-Public and Private Elevators**

Grain	Winnipeg	Fort William and Port Arthur	Calgary	Edmonton	Moose Jaw
Number of Carlots					
Wheat.....	481	15,867	412	727	206
Oats.....	1,631	8,511	61	115	251
Barley.....	633	5,739	925	67	59
Flax.....	17	836	—	—	4
Rye.....	16	23	—	—	6
Mixed Grain.....	91	197	61	—	34
Corn.....	10	—	—	—	—
Buckwheat.....	2	15	—	—	—
Peas.....	35	—	—	—	—
Sunflower Seeds.....	6	—	—	—	—
Screenings.....	462	4,562	280	37	82
Sample Grain.....	—	113	—	—	—
Rapeseed.....	2	—	2	1	—
Totals.....	3,386	35,863	1,741	947	642
	Saskatoon	Lethbridge	Medicine Hat	Vancouver and Prince Rupert	Churchill
Wheat.....	1,751	49	1	1,488	—
Oats.....	25	—	—	881	22
Barley.....	18	1	—	129	—
Flax.....	2	—	—	—	—
Rye.....	17	—	—	1	—
Mixed Grain.....	7	—	1	—	—
Corn.....	—	—	—	—	—
Buckwheat.....	—	—	—	—	—
Peas.....	—	—	—	—	—
Sunflower Seeds.....	—	—	—	—	—
Screenings.....	268	7	35	1,469	107
Rapeseed.....	—	—	—	—	—
Sample Grain.....	—	—	—	56	—
U.S.A. Corn.....	—	—	—	65	—
Totals.....	2,088	57	37	4,089	129

EASTERN DIVISION

Table F-10.—Total Carlot, Cargo and Bin Inspections, Crop Year 1952-53

—	Eastern Grain	Eastern Grain Cargoes	Western Grain Cargoes	U.S. Grain Cargoes	Bin Inspection Eastern Grain	Bin Inspection Western Grain
	Carlots	bu.	bu.	bu.	bu.	bu.
Montreal.....	175	892,312	323,422	89,302	266,443	83,746
Toronto.....	1,982	547,487	—	—	—	—
Chatham.....	11,415	2,450,109	—	—	15,179	—
Totals.....	13,572	3,889,908	323,422	89,302	281,622	83,746

Table F-11.—Carlots, Cargoes and Bins Sampled but not Inspected (Fees Collected)
Crop Year 1952-53

—	Eastern Grain	Western Grain	U.S. Grain	Totals
Carlots				
Montreal.....	104	249	37	390
Toronto.....	73	1	—	74
Chatham.....	69	—	—	69
Totals.....	246	250	37	533
Cargoes				
	bu.	bu.	bu.	bu.
Montreal.....	152,388	2,357,467	—	2,509,855
Toronto.....	—	—	—	—
Chatham.....	2,450,108	340,000	—	2,790,108
Totals.....	2,602,496	2,697,467	—	5,299,963
Bin Sampling				
Montreal.....	258,977	13,207	18,440	290,624
Toronto.....	—	—	—	—
Chatham.....	1,500	937,371	—	938,871
Totals.....	260,477	950,578	18,440	1,229,495

Table F-12.—Western, Eastern and Foreign Grain Sampled for Export, Export in Bags and Inward, by Points (Fees not Collected) Crop Year 1952-53

	Export	Export in Bags	Inward	Totals
	bu.	bu.	bu.	bu.
Western Grain.....	264,078,291	1,009,124	103,022,575	368,109,990
Eastern Grain.....	2,237,063	—	1,727,284	3,964,347
U.S. Grain.....	7,755	—	270,615	278,370
Totals.....	266,323,109	1,009,124	105,020,474	372,352,707
Montreal.....	155,018,045	717,196	102,176,665	257,911,906
Sorel.....	23,263,567	—	—	23,263,567
Three Rivers.....	23,305,722	—	2,843,809	26,149,531
Quebec.....	26,392,073	1,000	—	26,393,073
Halifax.....	14,530,407	—	—	14,530,407
Saint John.....	23,813,295	290,928	—	24,104,223
Totals.....	266,323,109	1,009,124	105,020,474	372,352,707

Table F-13.—Carlot Inspections from August 1, 1952 to July 31, 1953, by Grain, Grades and Points

Grade	Montreal	Toronto	Chatham	Total
WHEAT				
2 C.E. Red Winter.....	—	—	5	5
1 C.E. White Winter.....	—	4	498	502
2 C.E. White Winter.....	3	504	904	1,411
3 C.E. White Winter.....	—	34	50	84
4 C.E. White Winter.....	—	7	14	21
5 C.E. White Winter.....	—	1	2	3
1 C.E. Mixed Winter.....	—	1	312	313
2 C.E. Mixed Winter.....	—	136	786	922
3 C.E. Mixed Winter.....	—	4	14	18
Unfit for Human Consumption.....	—	—	10	10
Tough.....	1	353	778	1,132
Damp.....	—	—	—	—
Smutty.....	—	57	126	183
Sample.....	—	18	22	40
Total Wheat.....	4	1,119	3,521	4,644
OATS				
2 C.E. White.....	—	1	—	1
4 C.E.....	—	2	—	2
Mixed Feed Oats.....	—	22	—	22
1 Feed.....	1	—	—	1
Seed.....	—	—	1	1
Tough.....	1	—	—	1
Rejected Mildewed.....	1	—	—	1
Total Oats.....	3	25	1	29

Table F-13.—Carlot Inspections from August 1, 1952 to July 31, 1953, by Grain, Grades and Points—continued

Grade	Montreal	Toronto	Chatham	Total
BARLEY				
3 C.E. Six Row.....	—	143	22	165
4 C.E.....	24	9	1	34
5 C.E.....	8	8	1	17
2 Feed.....	30	95	—	125
3 Feed.....	5	27	—	32
Tough.....	4	55	21	80
Damp.....	—	2	—	2
Sample.....	6	25	—	31
Total Barley.....	77	364	45	486
RYE				
1 C.E.....	—	—	3	3
2 C.E.....	1	13	76	90
3 C.E.....	—	2	19	21
4 C.E.....	—	2	9	11
Tough.....	—	12	62	74
Damp.....	—	—	2	2
Total Rye.....	1	29	171	201
MIXED GRAIN				
1 C.E.....	—	—	1	1
3 C.W.....	1	3	—	4
4 C.E.....	—	2	—	2
Total Mixed Grain.....	1	5	1	7
BUCKWHEAT				
1 C.E.....	—	—	2	2
2 C.E.....	—	—	7	7
Tough.....	15	3	28	46
Damp.....	24	—	7	31
Total Buckwheat.....	39	3	44	86
CORN				
Extra Dry 1 C.E. Yellow.....	—	1	566	567
1 C.E. Yellow.....	—	1	1,939	1,940
Extra Dry 2 C.E. Yellow.....	—	—	221	221
2 C.E. Yellow.....	—	1	355	356
Extra Dry 3 C.E. Yellow.....	—	—	50	50
3 C.E. Yellow.....	—	—	59	59
Extra Dry 4 C.E. Yellow.....	—	—	12	12
4 C.E. Yellow.....	10	1	13	24
Extra Dry 5 C.E. Yellow.....	—	—	2	2
5 C.E. Yellow.....	21	1	6	30
1 C.E. White.....	—	—	1	1
1 C.E. Mixed.....	—	—	3	3

Table F-13.—Carlot Inspections from August 1, 1952 to July 31, 1953, by Grain, Grades and Points—concluded

Grade	Montreal	Toronto	Chatham	Total
CORN—Concluded				
Tough.....	1	10	943	954
Damp.....	—	4	1,066	1,070
Moist.....	—	3	637	640
Wet.....	—	—	72	72
Sample.....	1	14	2	17
Total Corn.....	33	36	5,949	6,018
BEANS				
1 C.E. Pea.....	—	—	299	299
2 C.E. Pea.....	—	—	354	354
3 C.E. Pea.....	—	—	25	25
4 C.E. Pea.....	—	—	1	1
2 C.E. Yellow Eyes.....	—	—	1	1
3 C.E. Yellow Eyes.....	—	—	1	1
4 C.E. Yellow Eyes.....	—	—	1	1
3 C.E. Kidney.....	—	—	1	1
Tough.....	—	—	6	6
Sample.....	—	—	1	1
Total Beans.....	—	—	690	690
SOYBEANS				
1 Can. Yellow.....	—	289	784	1,073
2 Can. Yellow.....	—	24	155	179
3 Can. Yellow.....	—	4	18	22
4 Can. Yellow.....	—	5	4	9
5 Can. Yellow.....	—	—	2	2
Tough.....	—	13	17	30
Damp.....	—	1	—	1
Sample.....	—	1	1	2
Total Soybeans.....	—	337	981	1,318
FLAXSEED				
1 C.E.....	1	20	2	23
2 C.E.....	2	16	10	28
3 C.E.....	—	1	—	1
Tough.....	—	27	—	27
Total Flaxseed.....	3	64	12	79
PEAS				
2 C.E. White.....	1	—	—	1
2 C.W. Yellow.....	11	—	—	11
3 C.W. Yellow.....	2	—	—	2
Total Peas.....	14	—	—	14
Grand Totals.....	175	1,982	11,415	13,572

APPENDIX G

Report of Grain Weighing Branch

This Appendix presents information relating to weighing service for the 1952-53 crop year and reports other activity of the Grain Weighing Branch for the calendar year 1953.

The Grain Weighing Branch provided official weighing service in the Western Division at all terminal elevators licensed by the Board and at mill elevators when required. In the Eastern Division weighing officers not on the Board's staff were authorized to give weighing service on a fees basis.

The Chief Grain Weighmaster who is authorized to inspect scales under the Weights and Measures Act, made an annual inspection of scales at all terminal and Eastern elevators from Victoria, B.C., to Halifax, N.S., and certificates of verification covering these inspections were issued. Additional inspections were made on a semi-annual basis in behalf of the Board to ensure accurate results from the weighing equipment. Other inspections were also made when deemed desirable, or when complaints on outturns indicated necessity for inspection.

All weighing and other equipment used for receiving and shipping grain checked by this Branch has been maintained by elevator operators in a satisfactory condition of repair, even though heavy handlings and large stocks handicapped regular overhauls and replacements.

During the 1952-53 crop year, a total of 407,668 carlots of grain received into elevators were weighed in, and 49,006 carlots were weighed out. There were 77,146 cars found leaking in various degrees, chiefly through improperly installed grain doors. In addition, 10,310 cars were without seals or had defective seals. Condition reports on leaking cars were issued and supplied to the railway companies and copies were submitted for information of shippers through the elevators at which the cars were unloaded. Discussions were held with the General Supervisor of Loss and Damage Prevention of the Canadian Pacific Railway Company, and with the Inspector of Car Unloading of the Canadian National Railways, with a view to reducing loss in transit through leaky cars.

Annual Weighovers

Annual weighover of stocks of grain in terminal and Eastern elevators was carried out by teams of weighing and inspection personnel in accordance with requirements of sections 139 and 140 of the Canada Grain Act.

During the crop year 1952-53 there were twenty-eight terminals and twenty-one Eastern elevators weighed over. The usual official statements based on actual amounts of different grades of various grains found in terminals and Eastern elevators at weighovers were submitted to the Statistics Branch for comparison with records of outstanding warehouse receipts for the purpose of determining shortages and overages in accordance with sections 139 and 140 of the Canada Grain Act.

Details of volume of grain weighed and other pertinent information relating to weighing of grain is presented in Tables G-1 to G-6 of this Appendix.

In addition to the above functions of the Grain Weighing Branch, a number of complaints of outturn shortages were investigated with a view to determining possible causes of these shortages and assigning liability for them. It will be noted from Table G-6 that invisible in-transit loss or shortages are at a satisfactory level. The average loss on vessel shipment of wheat during 1952-53 was 27 pounds per thousand bushels.

Respectfully submitted,

S. M. CAPON,

Chief Weighmaster.

Table G-1.—Gross Quantity of All Grains Weighed in the Western Division (Excluding Fort William and Port Arthur) During 1952-53 Crop Year

RECEIPTS

Point	Wheat	Oats	Barley	Rye	Flaxseed	Canadian Corn	U.S.A. Barley	U.S.A. Corn	Canadian Buckwheat	Canadian Miscellaneous
	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lb.
Vancouver and New Westminster.....	105,574,275	1,956,157	5,412,538	3,944	821	—	2,269,493	5,214	—	7,978,110
Victoria.....	901,758	567	1,271,264	—	—	—	—	—	—	—
Prince Rupert.....	4,520,283	1,579	8,333,758	—	—	—	—	—	—	—
Churchill.....	8,666,743	424	—	—	—	—	—	—	—	—
Calgary.....	2,189,755	29,281	1,624,800	1,600	1,048	5,209	—	—	—	13,040
Edmonton.....	2,350,507	313,649	170,677	—	—	—	—	—	—	—
Lethbridge.....	1,139,806	1,881	—	—	10	—	—	—	—	—
Moose Jaw.....	3,634,485	22,870	18,694	17,507	1,569	—	—	—	—	6,997,300
Saskatoon.....	3,829,752	78,886	99,978	7,746	7,184	—	—	—	1,482	16,377,235
North Transcona.....	724,554	—	—	—	—	—	—	—	—	—
Kenora.....	—	—	—	—	—	—	—	—	—	—
Total Receipts.....	135,531,918	2,409,526	16,333,590	30,797	10,632	5,209	2,269,493	5,214	1,482	31,365,655

SHIPMENTS

Vancouver and New Westminster.....	102,718,044	3,348,332	6,079,211	1,707	122	—	2,237,078	607,854	—	109,073,955
Victoria.....	852,670	7,529	1,056,824	—	—	—	—	898,534	—	1,011,740
Prince Rupert.....	3,961,726	—	8,684,472	—	—	—	—	—	—	5,373,340
Churchill.....	8,620,656	44,330	1,498,541	1,600	1,048	—	—	—	—	6,333,192
Calgary.....	650,549	67,371	178,811	—	506	3,618	—	735	—	3,132,770
Edmonton.....	1,222,521	262,853	1,782	—	—	—	—	—	—	4,800,840
Lethbridge.....	108,436	658	18,694	17,507	1,569	—	—	—	—	1,334,605
Moose Jaw.....	233,558	22,870	18,694	17,507	1,569	—	—	—	—	4,122,280
Saskatoon.....	1,474,235	2,614	97,528	7,746	7,183	—	—	—	—	11,194,955
North Transcona.....	356,492	232,882	—	—	—	—	—	—	1,482	12,077,570
Kenora.....	211,785	—	—	—	—	—	—	—	—	28,730
Total Shipments.....	120,410,652	3,989,439	17,618,108	28,560	10,526	3,618	2,237,078	1,507,123	1,482	158,493,977

Table G-2.—Gross Quantities of Various Grains Weighed Into and Out of Elevators at Fort William-Port Arthur During the Crop Year 1952-53

RECEIPTS

Grain	Receipts from Western Canada	Transfer Receipts		Total
		Rail	Vessel	
	bu.	bu.	bu.	bu.
Wheat.....	291,495,292	2,236,875	54,400	293,786,567
Durum.....	9,386,896	18,826	—	9,405,722
Oats.....	94,088,990	1,991,227	61,110	96,141,327
Barley.....	123,841,772	2,102,405	—	125,944,177
Rye.....	14,750,297	1,087,388	—	15,837,685
Flaxseed.....	8,915,526	82,298	—	8,997,824
Canadian Western Buckwheat.....	29,290	—	—	29,290
Canadian Corn.....	9,549	—	—	9,549
U.S.A. Corn.....	9,430	—	—	9,430
Mixed Grain (lb.).....	101,241,610	2,986,300	—	104,227,910
Sample Grain (lb.).....	12,202,160	4,547,330	—	16,749,490
All Screenings (lb.).....	20,433,881	12,284,752	—	32,718,633

SHIPMENTS

Grain	Vessel	Rail	Transfer Shipments		Total
			Rail	Vessel	
Wheat.....	245,720,972	23,510,438	2,218,684	54,665	271,504,759
Durum.....	6,088,762	3,164,208	20,896	—	9,273,866
Oats.....	81,179,048	17,769,296	1,976,496	55,289	100,980,129
Barley.....	109,023,250	11,393,710	2,117,598	—	122,534,558
Rye.....	10,639,910	71,457	1,088,068	—	11,849,435
Flaxseed.....	6,044,005	1,536,814	84,808	—	7,665,627
Canadian Western Buckwheat.....	—	28,128	—	—	28,128
Canadian Corn.....	—	9,543	—	—	9,543
U.S.A. Corn.....	—	9,426	—	—	9,426
Mixed Grain (lb.).....	27,215,330	18,888,586	3,944,812	—	50,047,728
Sample Grain (lb.).....	1,057,110	12,336,010	3,139,340	—	16,532,460
All Screenings (lb.).....	265,180,280	294,613,620	13,974,622	—	573,768,522

Table G-3.—Number of Carlots of All Grain Weighed at Interior Points Other Than Public Interior Terminals, Crop Years 1951-52 and 1952-53

Point	1951-52	1952-53
	carlots	
Keewatin and Kenora.....	5,624	6,055
Winnipeg.....	12,342	12,060
Saskatoon.....	5,996	6,290
Moose Jaw.....	4,725	4,312
Calgary.....	7,315	7,497
Edmonton.....	445	493
Medicine Hat.....	3,680	4,361
Lethbridge.....	33	45
Churchill.....	4,278	5,094
Totals.....	44,428	46,207

Table G-4.—Number of Cars Leaking and Cars with Missing Seals at the Lakehead, at Winnipeg Yards and at Other Points, by Railway, for Crop Year 1952-53

Destination	Cars Leaking		Missing Seals	
	C.N.R.	C.P.R.	C.N.R.	C.P.R.
Lakehead Elevators and Yards.....	27,643	31,602	1,245	2,845
Other Points.....	7,942	9,959	1,203	1,723
Totals.....	35,585	41,561	2,448	4,568
Total Both Railways.....	77,146		7,016	
Winnipeg Yards.....	3,074	4,553	1,266	2,028

Table G-5.—Number of Cars Weighed at all Points and Percentage of such Cars found Leaking or with Defective Seals, Crop Years, 1951-52 and 1952-53

	Number		Percentage of Total	
	1951-52	1952-53	1951-52	1952-53
Cars Weighed in.....	368,045	407,668	100.0	100.0
Inward Cars Leaking.....	62,474	77,146	17.0	17.1
Inward Cars with Missing or Defective Seals.....	7,000	7,016	1.9	1.7
Cars Weighed Out.....	59,546	49,006	—	—

Table G-6.—Average Reported Shortages in pounds per 1,000 bushels on the various grains loaded at Fort William and Port Arthur and unloaded at Canadian and United States ports for the 1952-53 Crop Year.

Grain	Bushels	Shortage in Pounds per 1,000 Bushels
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CANADIAN PORTS

Wheat.....	224,651,289	25.1
Durum Wheat.....	4,997,109	21.7
Oats.....	39,258,214	18.3
Barley.....	85,307,063	27.0
Rye.....	4,078,832	48.9
Flaxseed.....	5,990,728	29.9
Mixed Grain (in lbs.).....	21,714,790	.5 lbs. per 1,000 lbs.
Sample Grain (in lbs.).....	10,415,910	.5 lbs. per 1,000 lbs.
Screenings (in tons).....	28,912	1.9 lbs. per ton

UNITED STATES PORTS

Wheat.....	20,862,749	30.8
Durum Wheat.....	831,519	44.9
Oats.....	41,873,812	27.1
Barley.....	23,577,686	44.5
Rye.....	6,538,020	54.6
Sample Grain (in lbs.).....	2,162,250	1.6 lbs. per 1,000 lbs.
Screenings (in tons).....	99,192	Nil

Table G-6.—Average Reported Shortages in pounds per 1,000 bushels on the various grains loaded at Fort William and Port Arthur and unloaded at Canadian and United States ports for the 1952-53 Crop Year—concluded

Grain	Bushels	Shortage in Pounds per 1,000 Bushels
TOTAL CANADIAN AND UNITED STATES PORTS		
Wheat.....	245,514,038	27.1
Durum Wheat.....	5,828,628	25.0
Oats.....	81,132,026	22.8
Barley.....	108,884,754	30.8
Rye.....	10,616,852	52.4
Flaxseed.....	5,990,728	29.9
Mixed Grain (in lbs.).....	21,714,790	.5 lbs. per 1,000 lbs.
Sample Grain (in lbs.).....	12,578,160	.7 lbs. per 1,000 lbs.
Screenings (in tons).....	128,104	.4 lbs. per ton
EUROPE DIRECT		
Wheat.....	206,911	(No record of outturns received. These figures not included in Bill of Lading totals used in calculating average shortage per 1,000 bushels.)
Barley.....	211,534	
Rye.....	61,211	
Flaxseed.....	53,277	

APPENDIX H

Report of Statistics Branch

This Appendix summarizes grain statistics for the 1952-53 crop year and the 1953 season of navigation on the Great Lakes, and reviews other activities during 1953. This Branch continued its major function of maintaining records and publishing for distribution without charge, regular bulletins on grain stocks and handlings in all positions.

Grain Supplies and Disposition

The 1952-53 crop year opened with above average carryovers of all grains except flaxseed. To these stocks were added the record 1952 wheat crop of 688 million bushels, a near record oats production (467 million bushels) and good harvests of the remaining three principal grains (barley 291, rye 25, and flaxseed 13 million bushels). Thus a total supply of 1,899 million bushels of the five grains was available. Of this total, an all-time record volume of 583 million bushels was exported; domestic needs including feed, seed and human consumption utilized 660 millions, leaving 656 millions for carryover at July 31, 1953. These data are elaborated in Tables H-1 to H-3.

Marketings

Deliveries of grain from farms into the elevator system during the crop year 1952-53 amounted to a record 849.2 million bushels. Deliveries to Western country elevators were 832.8 million bushels of the five commercial grains, and to Eastern elevators 6.4 millions with the remaining 10.0 million bushels delivered to interior private terminals and mill elevators, loaded over platforms or trucked directly to the United States. Details of farm marketings are given in Table H-4.

Terminal and Eastern Handlings

The volume of grain received by the elevators at Fort William and Port Arthur (530.9 millions) all but equalled the 531.5 million bushel record established under wartime conditions in 1944-45. Lake shipments of 458.6 millions were also second only to the huge 1944-45 movement. Pacific seaboard terminals established a new record for vessel loadings as ocean clearances totalled 121.5 million bushels of wheat, oats and barley compared to 113 millions in 1951-52. In the same pattern, 8.6 million bushels of wheat were shipped from the Port of Churchill further extending the steady expansion of loadings from this Northern outlet.

Eastern elevators as the major link in grain movement from the Lakehead for export and for domestic consumption handled nearly 400 million bushels in 1952-53. Shipments to Canadian mills, distilleries, manufacturing plants and feeders involved 9.9 millions. Overseas exports from these elevators amounted to 279.1 millions, and a further 13.9 millions moved directly into United States domestic channels. The Port of Montreal with export shipments of 164.4 millions held its position as the major handling unit in the Eastern system, although the Maritime ports of Saint John, New Brunswick and Halifax, N.S., handled record post war loadings of 38.3 million bushels. Tables H-5 to H-9 give further details of these handlings.

Exports

Canada's exports of grain and milled products constituted on all-time record at 583 million bushels to place Canada as the major grain exporting nation of the world. Export data are presented in detail in the publication "*Canadian Grain Exports 1952-53*" prepared by this Branch*. Canada also supplanted the United States as the leading wheat exporter with total clearances of wheat and wheat flour at 385.9 millions. This volume was exceeded only once in our history as a grain producing nation when 407.6 millions were exported in 1928-29. However, changes and refinements in methods of keeping records made in 1936 and in subsequent years have eliminated duplication which may have inflated the 1928-29 data.

Exports of Canadian barley rose to 118.9 million bushels for the year to establish another new record. Oats exports at 64.9 millions were down from last year. Clearances of both rye (9.0) and flaxseed (4.1) were increased over 1951-52 for a coarse grain total of 196.8 million bushels compared with 149.2 millions in the previous year. Detailed data on this export movement appear in Tables H-11 to H-13.

Lake Transportation 1953 Season

The 1953 season of navigation on the Great Lakes opened on March 27, 1953, with the arrival of the S.S. *Shaughnessy* at Fort William and Port Arthur and closed on December 14 with the clearing of the S.S. *Mohawk Deer*. The March opening coincided with the previous earliest opening in 1945 but the closing date was ten days short of the December 24 late closing record set in 1923. A total of 1,833 boats loaded grain at Fort-William Port Arthur during the season with a cargo volume of 441.7 million bushels of wheat and coarse grains. This shipping total was down slightly from the volume of 450.8 millions recorded for 1952 but still reflected the fourth heaviest season in Lakehead history. The oats, barley and rye individual grain totals constituted all-time highs at 98.2 millions, 110.5 millions and 17.7 million bushels respectively. Wheat alone at 209.1 millions was down from the 1952 volume but still substantially in excess of the average of recorded yearly volume of 171.0 millions.

Lake freight rates for the movement of wheat from the Lakehead to Canadian ports held at the maximum rates specified in the Board's Order No. 19 issued on February 5, 1951. Rates on wheat cargoes to Buffalo were quoted at a weighted average of 8.9 cents Canadian, to Duluth from the Lakehead 5.5 cents, with limited cargoes to Chicago at 9.0 cents and slightly over, and to Oswego at 9.0 cents and 9.5 cents per bushel. In accordance with the Inland Water Freight Rates Act, shippers filed charter confirmations with this office on lake grain cargoes and monthly weighted average freight rates statements were prepared from them. Summary of these rates for the 1953 season appears in Table H-14.

* Available without charge from Statistics Branch, Board of Grain Commissioners for Canada, Winnipeg, Manitoba.

General

Elevator licensees filed insurance policies covering in-store grain under section 102 of the Canada Grain Act. These policies have been recorded and checked to ensure adequate coverage and protection for owners of stored grain. Detailed price records covering transactions on the principal world markets have been maintained in this office and weekly, monthly and annual statements covering Canadian grain prices were released. Statements covering weighovers of grain in terminal and Eastern elevators during the crop year as carried out under the authority of sections 139 and 140 of the Canada Grain Act have been compiled and submitted to the Board.

The offices of the Statistics Branch were removed from Fort William to Winnipeg in January, 1953. During 1953 installation of a punch-card system for handling data was initiated. This installation is now used for processing Research Laboratory data, daily car inspection information of the Inspection Branch, and for tabulating and summarizing certain data of the Statistics Branch.

In co-operation with the Canadian Wheat Board and with valuable suggestions from individuals and organizations interested in grain handling, a change in procedure for recording grain data was made. Effective from August 1, 1953, grain data are now recorded in bushels and tenths of a bushel instead of bushels and pounds. This change was designed to facilitate maintenance of records and handling and publishing of statistics.

Respectfully submitted,

E. E. BAXTER,

Chief Statistician.

Table H-1.—July 31 Carry-Over of Canadian Wheat

	1953	1952	1951
	bu.	bu.	bu.
On Farms, estimated.....	92,016,000	19,262,000	22,260,000
In Country, Private Terminal, and Mill Elevators.....	160,973,962	103,731,183	82,834,693
In Public and Semi-Public Elevators.....	53,176,644	28,018,842	48,006,907
In Store at and Afloat to Eastern Elevators.....	52,402,160	42,114,122	17,698,467
In Eastern Flour Mills.....	2,562,748	1,995,796	1,990,847
In Transit Rail—East and West.....	19,068,914	19,812,200	14,398,649
In Store and in Transit in the United States.....	639,881	2,243,683	2,013,104
Totals.....	380,840,309	217,177,826	189,202,667

Table H-2.—Supply and Disposition of Canadian Grain, Crop Year 1952-53

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Carry-over at Aug. 1, 1952.....	217,177,826	108,358,284	79,503,741	8,094,397	2,463,918
Production.....	687,922,000	466,805,000	291,379,000	24,557,000	12,961,000
Total Supply.....	905,099,826	575,163,284	370,882,741	32,651,397	15,424,918
Total Disposition.....	524,259,517	431,445,732	259,319,144	16,014,435	12,293,026
Carry-over July 31 1953.....	380,840,309	143,717,552	111,563,597	16,636,962	3,131,892

Table H-3.—Exports of Canadian Grain and Grain Products, Crop Years 1952-53 and 1951-52

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Crop Year 1952-53.....	329,025,828	64,857,405	118,857,286	8,993,491	4,060,285
Wheat Flour, Oatmeal, etc., equivalent to.....	56,879,357	514,000	—	—	—
Totals.....	385,905,185	65,371,405	118,857,286	8,993,491	4,060,285
Crop Year 1951-52.....	304,721,956	69,579,045	69,915,314	6,819,536	2,881,803
Wheat Flour, Oatmeal, etc., equivalent to.....	51,103,296	1,067,339	—	—	—
Totals.....	355,825,252	70,646,384	69,915,314	6,819,536	2,881,803

Table H-4.—Production, Producers' Marketings, and Inspections of Grain in Western Canada, by Provinces, Crop Year 1952-53

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Production—1					
Manitoba.....	57,000,000	65,000,000	71,000,000	924,000	5,700,000
Saskatchewan.....	435,000,000	152,000,000	92,000,000	14,200,000	4,300,000
Alberta and British Columbia..	173,973,000	134,300,000	119,622,000	7,867,000	2,090,000
Totals.....	665,973,000	351,300,000	282,622,000	22,991,000	12,090,000

Table H-4.—Production, Producers' Marketings, and Inspections of Grain in Western Canada, by Provinces, Crop Year 1952-53—concluded

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Producers' Marketings at: ²					
Country Elevators— ³					
Manitoba.....	45,567,826	24,913,384	44,459,472	998,637	3,487,036
Saskatchewan.....	348,777,550	54,584,419	57,912,116	10,340,284	2,834,344
Alberta.....	133,100,452	38,300,885	61,327,294	4,544,544	1,687,837
Totals.....	527,445,828	117,798,688	163,698,882	15,883,465	8,009,217
Loaded over Platforms—					
Manitoba.....	108,855	42,746	189,536	1,400	7,029
Saskatchewan.....	250,703	23,388	51,345	4,442	8,567
Alberta.....	139,459	75,793	34,467	2,132	2,416
Totals.....	499,017	141,927	275,348	7,974	18,012
Interior Public and Smei-Public					
Terminals—					
Manitoba.....	5,768	8,990	18,535	—	—
Saskatchewan.....	—	—	—	—	—
Alberta.....	7,099	309,211	149,602	—	—
Totals.....	12,867	318,201	168,137	—	—
Private and Mill Elevators—					
Manitoba.....	446,489	189,590	32,820	—	130,791
Saskatchewan.....	3,080,240	296,236	196,102	38,840	9,562
Alberta.....	2,678,230	705,299	201,592	112,816	135,851
Totals.....	6,204,959	1,191,125	430,514	151,656	276,204
Trucked from Farms into United					
States— ⁴					
Manitoba.....	22,991	1,650	837	—	—
Saskatchewan.....	20,895	6,707	151,341	—	—
Alberta.....	2,451	19,919	58,873	533	—
Totals.....	46,337	28,276	211,051	533	—
Total Producers' Marketings—					
Manitoba.....	46,151,929	25,156,360	44,701,200	1,000,037	3,624,856
Saskatchewan.....	352,129,388	54,910,750	58,310,904	10,383,566	2,852,473
Alberta.....	135,927,691	39,411,107	61,771,828	4,660,025	1,826,104
Totals.....	534,209,008	119,478,217	164,783,932	16,043,628	8,303,433
Inspections of Grain Grown in— ⁵					
Manitoba.....	37,546,770	18,614,191	37,252,903	878,230	2,848,288
Saskatchewan.....	316,577,537	64,363,438	69,629,097	10,079,877	3,147,326
Alberta and British Columbia...	116,243,661	22,523,171	37,678,107	3,475,520	1,266,019
Totals.....	470,367,968	105,500,800	144,560,107	14,433,627	7,261,633

¹ Gross production estimates by Dominion Bureau of Statistics.² Points in Ontario west of Fort William are included in Manitoba figures; country points in the Peace River valley situated in British Columbia are included in Alberta figures.³ Subject to revision.⁴ Customs returns, Dominion Bureau of Statistics.⁵ Cars inspected converted to bushels, using the average net bushel out-turn per car inspected for each grain.**Table H-5.—Primary Receipts and Shipments of Canadian Grain at Eastern Elevators, Crop Year 1952-53**

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Receipts.....	259,612,085	41,741,123	86,511,568	4,613,628	7,393,291
Shipments.....	249,210,451	41,937,041	90,961,127	3,791,856	7,322,073
	Corn	Beans	Buckwheat	Peas	Mixed Grain
	bu.	bu.	bu.	bu.	lb.
Receipts.....	5,129,770	1,191,487	438,539	59,077	21,535,490
Shipments.....	4,622,294	1,518,928	357,822	59,077	14,152,790

Table H-6.—Primary Receipts and Shipments of United States Grain at Eastern Elevators, Crop Year 1952-53

	Barley	Corn	Beans
	bu.	bu.	bu.
Receipts.....	—	3,609,979	1,165,109
Shipments.....	71,708	3,885,356	1,061,058

Table H-7.—Shipments of Foreign Grain from Canadian Elevators into Canadian Consumptive Channels, Crop Year 1952-53

	United States Wheat	United States Oats	United States Barley	United States Rye	United States Flaxseed	Corn	Beans
	bu.	bu.	bu.	bu.	bu.	bu.	bu.
Ex. Eastern Elevators.....	—	—	—	—	—	2,684,979	894,742
Fort William-Port Arthur..	—	—	—	—	—	9,425	—
Interior Terminals.....	—	—	—	—	—	735	—
Interior Private and Mill Elevators.....	—	—	—	2,120	—	447,056	—
Pacific Coast Elevators....	—	—	—	—	—	130,427	—

Table H-8.—Primary Receipts and Shipments of Canadian Grain at Terminal Elevators, Crop Year 1952-53

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Fort William-Port Arthur—					
Receipts.....	293,613,601	92,920,673	121,951,502	14,290,307	7,245,207
Shipments.....	278,484,037	98,948,343	120,416,943	10,760,958	7,437,664
Vancouver-New Westminster—					
Receipts.....	101,819,817	1,929,322	5,308,325	3,925	821
Shipments.....	101,686,410	3,347,705	6,046,506	1,707	116
Victoria—					
Receipts.....	876,779	489	1,255,718	—	—
Shipments.....	852,671	7,529	1,056,825	—	—
Prince Rupert—					
Receipts.....	4,347,309	1,439	8,237,766	—	—
Shipments.....	3,961,725	—	8,684,472	—	—
Churchill—					
Receipts.....	8,456,842	425	—	—	—
Shipments.....	8,620,656	44,330	—	—	—
Transcona—					
Receipts.....	706,960	78,774	99,683	7,747	7,184
Shipments.....	363,373	232,882	97,528	7,747	7,184
Kenora—					
Receipts.....	—	—	—	—	—
Shipments.....	209,952	—	—	—	—

Table H-9.—Receipts and Shipments of Canadian Grain at Canadian Government Interior Terminal Elevators, Crop Year 1952-53

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Receipts—					
Calgary.....	2,140,569	29,108	1,623,994	1,600	1,048
Edmonton.....	2,266,846	317,850	170,263	—	—
Lethbridge.....	1,114,513	658	1,861	—	10
Moose Jaw.....	3,547,377	22,870	18,694	17,507	1,569
Saskatoon.....	3,715,759	455	—	—	—
Totals.....	12,785,064	370,941	1,814,812	19,107	2,627
Shipments—					
Calgary.....	650,549	67,371	1,498,541	1,600	1,048
Edmonton.....	1,222,521	262,853	178,811	—	506
Lethbridge.....	108,436	658	1,782	—	—
Moose Jaw.....	233,538	22,870	18,694	17,507	1,569
Saskatoon.....	1,474,235	2,614	2,245	—	98
Totals.....	3,689,279	356,366	1,700,073	19,107	3,221

Table H-10.—Receipts and Shipments of Canadian Grain at Duluth-Superior, Crop Year 1952-53
(including duty-paid imports)

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Receipts.....	2,641,720	—	6,277,310	674,195	—
Shipments.....	2,641,720	170,164	6,011,760	636,195	—

Table H-11.—Exports of Canadian Wheat, by Seaboard Sectors, by Months, Crop Year 1952-53

Month	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via Port William- Port Arthur Direct	Via United States Atlantic Ports	United States Imports ¹		Total Wheat Flour ²	Total Wheat and Wheat Flour
						For Domestic Use	Milling in Bond		
1952	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
August.....	7,514,685	15,428,363	3,146,003	—	—	1,754,041	804,514	28,647,606	32,011,437
September.....	6,805,635	9,922,508	4,479,785	—	—	2,829,620	482,284	24,519,832	29,479,845
October.....	9,116,240	14,297,059	692,301	—	—	2,280,385	669,516	27,055,501	33,332,132
November.....	10,712,607	23,570,789	—	55,846	—	3,081,983	594,767	38,015,992	43,067,813
December.....	11,577,692	10,199,725	—	—	—	2,197,300	686,161	24,660,878	30,353,977
1953									
January.....	11,028,227	6,489,595	—	—	—	1,205,946	—	18,723,768	22,442,001
February.....	5,391,279	7,123,902	—	—	619,701	847,334	—	13,952,216	16,950,983
March.....	1,761,369	9,427,444	—	—	30,775	914,599	—	12,134,187	16,437,456
April.....	1,796,930	16,505,642	—	—	716,452	290,929	1,049,739	20,359,692	25,043,108
May.....	10,561,268	28,869,494	—	48,520	700,043	717,605	753,548	41,055,478	46,445,939
June.....	14,449,803	22,333,240	—	102,545	504,061	898,997	718,091	39,096,737	44,906,872
July.....	14,000,119	24,668,777	302,533	—	1,177,907	114,605	—	40,263,941	45,433,622
Totals Crop Year 1952-53	104,715,854	188,836,538	8,620,622	296,911	3,745,829	17,133,344	5,763,620	329,025,828	385,905,185
Totals Crop Year 1951-52	103,484,105	151,208,557	7,545,443	115,861	3,985,160	31,355,268	7,327,562	304,721,956	355,825,252
5-year average 1947-48 to 1951-52	65,146,578	194,314,069	6,026,163	86,715	6,245,777	9,989,074	5,583,379	197,391,755	250,066,999

¹ Compiled from returns of Canadian elevator licensees and shippers and advice from American grain correspondents.
² Canadian Customs returns converted to bushels.

Table H-12.—Overseas Exports of Canadian Grain, by Seaboard Sectors, by Grades, Crop Year 1952-53

Grades	Via Canadian Pacific Ports	Via ¹ Canadian St. Lawrence- Atlantic Ports	Via United States Atlantic Ports	Total
	bu.	bu.	bu.	bu.
Wheat—				
1 Manitoba Hard.....	—	29,885	—	29,885
1 Manitoba Northern.....	4,712,688	19,854,439	167,750	24,734,877
2 Manitoba Northern.....	22,348,464	79,816,750	1,098,622	103,263,836
3 Manitoba Northern.....	30,519,645	34,147,311	—	64,666,956
4 Manitoba Northern.....	23,726,224	23,197,340	—	46,923,564
No. 5.....	19,974,128	25,962,230	1,149,991	47,086,349
No. 6.....	581,467	1,538,179	660,515	2,780,161
Feed.....	23,707	—	—	23,707
Tough 2 Man. Northern.....	—	451,017	—	451,017
Tough 3 Man. Northern.....	—	1,567,146	—	1,567,146
Tough 4 Man. Northern.....	—	381,142	—	381,142
2 C.W. Garnet.....	96,810	—	—	96,810
3 C.W. Garnet.....	2,383,582	106,315	—	2,489,897
Tough 2 C.W. Garnet.....	—	3,966	—	3,966
Other Garnet.....	—	57,036	—	57,036
1 Alberta Red Winter.....	113,857	—	—	113,857
2 Alberta Winter.....	154,816	—	—	154,816
3 Alberta Winter.....	43,133	—	—	43,133
Other Western.....	37,333	1,400,469	—	1,437,802
Eastern.....	—	2,145,179	—	2,145,179
2 C.W. Amber Durum.....	—	569,984	—	569,984
3 C.W. Amber Durum.....	—	3,835,913	577,061	4,412,974
4 C.W. Amber Durum.....	—	2,243,398	95,000	2,338,398
Tf. 3 C.W. Amber Durum.....	—	109,478	—	109,478
Tf. 4 C.W. Amber Durum.....	—	225,000	—	225,000
Other Durum.....	—	21,894	—	21,894
Totals.....	104,715,854	197,664,071	3,748,939	306,128,864
Oats—				
2 C.W.....	7,647	—	—	7,647
Ex. 3 C.W.....	4,412	22,383	—	26,795
3 C.W.....	15,294	882,882	—	898,176
Ex. 1 Feed.....	122,247	—	—	122,247
1 Feed.....	768,212	2,536,685	—	3,304,897
Mixed Feed.....	159,000	728,092	—	887,092
Eastern.....	—	83,190	—	83,190
Totals.....	1,076,812	4,253,232	—	5,330,044
Barley—				
3 C.W. Six-Row.....	—	9,382,750	—	9,382,750
4 C.W. Six-Row.....	—	1,213,012	—	1,213,012
2 C.W. Two-Row.....	62,112	—	—	62,112
3 C.W. Two-Row.....	1,046,590	2,656,563	—	3,703,153
1 Feed.....	12,366,570	36,760,626	—	49,127,196
2 Feed.....	1,214,211	25,790,844	—	27,005,055
3 Feed.....	—	410,256	—	410,256
Tough 3 C.W. Six-Row.....	—	118,953	—	118,953
Tough 3 C.W. Two-Row.....	—	21,727	—	21,727
Tough 1 Feed.....	—	1,010,609	—	1,010,609
Tough 2 Feed.....	—	901,432	—	901,432
Tough 3 Feed.....	—	52,981	—	52,981
Other Western.....	891,791	846,476	—	1,738,267
Eastern.....	—	24,343	—	24,343
Totals.....	15,581,274	79,190,572	—	94,771,846
Rye—				
2 C.W.....	—	543,324	95,422	638,746
3 C.W.....	—	2,351,560	—	2,351,560
Other Western.....	—	208,370	—	208,370
Eastern.....	—	9,404	—	9,404
Totals.....	—	3,112,658	95,422	3,208,080
Flaxseed—				
1 C.W.....	—	3,907,822	—	3,907,822
2 C.W.....	—	152,463	—	152,463
Totals.....	—	4,060,285	—	4,060,285

¹ Includes clearances via the Port of Churchill and via Fort William-Port Arthur direct.

Table H-13.—Overseas Exports of Canadian Grain, by Ports, Crop Year 1952-53

Loaded	Wheat (All Varieties)	Oats	Barley	Rye	Flaxseed	Grand Total All Grains
	bu.	bu.	bu.	bu.	bu.	bu.
Vancouver-New Westminster.....	99,901,625	1,076,812	5,839,977	—	—	106,818,414
Victoria.....	852,504	—	1,056,825	—	—	1,909,329
Prince Rupert.....	3,961,725	—	8,684,472	—	—	12,646,197
Montreal.....	88,706,160	3,913,824	65,903,241	2,858,843	3,029,270	164,411,338
Sorel River.....	15,994,169	—	7,983,176	—	—	23,977,345
Three Rivers.....	24,655,713	—	—	—	—	24,655,713
Quebec.....	26,867,352	339,408	508,029	—	27,310	27,742,099
St. John.....	2,714,464	—	—	—	—	2,714,464
West St. John.....	16,653,433	—	3,270,939	192,604	950,428	21,067,404
Halifax.....	13,245,247	—	1,313,653	—	—	14,558,900
Churchill.....	8,620,622	—	—	—	—	8,620,622
Fort William-Port Arthur (Direct).....	206,911	—	211,534	61,211	53,277	532,933
Totals—Canadian Ports.....	302,379,925	5,330,044	94,771,846	3,112,658	4,060,285	409,654,758
Albany.....	2,643,813	—	—	—	—	2,643,813
Baltimore.....	—	—	—	95,422	—	95,422
Boston.....	723,740	—	—	—	—	723,740
New York.....	14,715	—	—	—	—	14,715
Norfolk.....	335,896	—	—	—	—	335,896
Portland.....	30,775	—	—	—	—	30,775
Totals—U.S.A. Ports.....	3,748,939	—	—	95,422	—	3,844,361
Totals to Overseas.....	306,128,864	5,330,044	94,771,846	3,208,080	4,060,285	413,499,119
Wheat Flour ¹	56,879,357	—	—	—	—	56,879,357
Rollod Oats and Oatmeal ¹	—	514,000	—	—	—	514,000
U.S.A. Imports ²	22,896,964	59,527,361	24,085,440	5,785,411	—	112,295,176
Grand Totals.....	385,905,185	65,371,405	118,857,286	8,993,491	4,060,285	583,187,652

¹ Canadian Customs returns—converted to bushels.² Compiled from returns of Canadian Elevator licensees and shippers and advice from American grain correspondents.

Table H-14.—Weighted Average Lake Freight Rates on Canadian Grain from Fort William-Port Arthur, Season of Navigation 1953

Port of Discharge	Wheat	Oats	Barley	Rye	Flaxseed
Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	5-503	5-008	5-353	5-913	5-827
Port Colborne.....	7-528	6-75	7-25	7-5	—
Toronto.....	8-0	7-25	7-5	8-0	8-050
Kingston.....	—	8-0	8-25	—	—
Prescott.....	9-0	8-25	8-5	9-0	—
Montreal.....	16-0	12-5	15-25	16-0	18-094
Montreal via Port Colborne.....	16-0	12-5	15-25	16-0	18-0
Montreal via Kingston.....	16-0	12-5	15-25	16-0	17-974
Montreal via Prescott.....	16-0	12-5	15-25	16-0	—
Sorel via Port Colborne.....	16-0	—	15-25	—	—
Quebec.....	16-0	12-5	15-25	—	—
Quebec via Toronto.....	16-0	—	—	—	—
Quebec via Kingston.....	—	—	15-25	—	—
Quebec via Prescott.....	—	12-5	15-25	—	—
Buffalo.....	8-507	5-589	7-880	7-784	—
Chicago.....	9-345	5-291	8-0	8-039	—
Detroit.....	—	—	7-726	—	—
Duluth-Superior.....	5-5	4-253	4-878	4-789	—
Erie.....	—	5-711	—	—	—
Huron.....	—	6-059	—	—	—
Manitowoc.....	—	—	8-533	—	—
Milwaukee.....	10-0	5-918	7-996	—	—
Oswego.....	9-290	6-0	10-0	8-250	—
Toledo.....	—	5-507	—	—	—

NOTE.—Rates originally quoted in American Funds have been converted at the prevailing rates of exchange.

Table H-15.—Monthly Averages of Canadian Wheat Board and Winnipeg Grain Exchange Daily Cash Quotations, Crop Year 1952-53

Grain and Grade	1952												1953			Yearly Average
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July				
	cents and eighths per bushel															
CANADIAN WHEAT BOARD QUOTATIONS WHEAT (Basis in Store Fort William-Port Arthur or Vancouver)																
Initial Payment to Producers:																
1 Northern.....	160	160	160	160	160	160	160	160	160	160	160	160	160	160		
2 Northern.....	157	157	157	157	157	157	157	157	157	157	157	157	157	157		
3 Northern.....	154	154	154	154	154	154	154	154	154	154	154	154	154	154		
4 Northern.....	146	146	146	146	146	146	146	146	146	146	146	146	146	146		
Number 5 Wheat.....	136	136	136	136	136	136	136	136	136	136	136	136	136	136		
Number 6 Wheat.....	126	126	126	126	126	126	126	126	126	126	126	126	126	126		
Feed.....	120	120	120	120	120	120	120	120	120	120	120	120	120	120		
1 C.W. Garnet.....	154	154	154	154	154	154	154	154	154	154	154	154	154	154		
1 Alta. Red Winter.....	157	157	157	157	157	157	157	157	157	157	157	157	157	157		
1 C.W. Amber Durum.....	165	165	165	165	165	165	165	165	165	165	165	165	165	165		
2 C.W. Amber Durum.....	162	162	162	162	162	162	162	162	162	162	162	162	162	162		
Domestic Sales:																
1 Northern.....	173	172/6	173/5	175/6	174/6	174/5	175/7	177	177	183	203/6	202/3	185/6	185/6		
2 Northern.....	171	170/6	171/5	173/6	172/6	172/5	173/7	175	175	191	201/6	200/3	183/6	183/6		
3 Northern.....	169	168/6	169/5	171/6	170/6	170/5	171/7	173	173	189	199/6	198/3	181/6	181/6		
4 Northern.....	163	162/6	163/5	165/6	164/6	164/5	165/7	167	167	184	194/7	193/6	171/5	171/5		
Number 5.....	155/6	153/6	153/5	155/6	154/6	154/5	155/7	157	157	173	183/6	182/3	175	175		
Number 6.....	151/4	151/6	152/5	154/6	153/6	153/5	154/7	156	156	168	178/3	177	170	170		
Feed.....	146/2	146/6	147/5	150/6	149/6	149/5	150/7	151	151	163	173/3	172	165	165		
1 C.W. Garnet.....	171	170/6	171/5	173/6	172/6	172/5	173/7	175	175	191	201/6	200/3	183/6	183/6		
2 C.W. Garnet.....	170	169/6	170/5	172/6	171/6	171/5	172/7	174	174	190	200/6	199/3	178/1	178/1		
3 C.W. Garnet.....	167	166/6	167/5	169/6	168/6	168/5	169/7	171	171	187	197/6	196/3	175/1	175/1		
1 Alta. Red Winter.....	173	172/6	173/5	175/6	174/6	174/5	175/7	177	177	193	203/6	202/3	185/6	185/6		
2 Alta. Winter.....	171	170/6	171/5	173/6	172/6	172/5	173/7	175	175	191	201/6	200/3	179/1	179/1		
3 Alta. Winter.....	169	168/6	169/5	171/6	170/6	170/5	171/7	173	173	189	199/6	198/3	181/6	181/6		
1 C.W. Amber Durum.....	173	172/6	173/5	175/6	174/6	174/5	175/7	177	177	193	203/6	202/3	185/6	185/6		
2 C.W. Amber Durum.....	171	170/6	171/5	173/6	172/6	172/5	173/7	175	175	191	201/6	200/3	183/6	183/6		
3 C.W. Amber Durum.....	170	169/6	170/5	172/6	171/6	171/5	172/7	174	174	189	200/6	199/3	178	178		

[illegible]

BARLEY (Basis in Store Fort William-Port Arthur)
Domestic and Export; (Local Sales and Spot
Sales Subject to Confirmation)

1	C.W. Six Row.....	1	C.W. Six Row.....
2	C.W. Six Row.....	2	C.W. Six Row.....
3	C.W. Six Row.....	3	C.W. Six Row.....
4	C.W. Six Row.....	4	C.W. Six Row.....
1	C.W. Two Row.....	1	C.W. Two Row.....
2	C.W. Two Row.....	2	C.W. Two Row.....
3	C.W. Two Row.....	3	C.W. Two Row.....
1	Feed.....	1	Feed.....
2	Feed.....	2	Feed.....
3	Feed.....	3	Feed.....

Table H-15.—Monthly Averages of Canadian Wheat Board and Winnipeg Grain Exchange Daily Cash Quotations, Crop Year 1952-53—con.

Grain and Grade	1952						1953						Yearly Average
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	
WINNIPEG GRAIN EXCHANGE CASH QUOTATIONS													
Oats (Basis in Store Fort William-Port Arthur)													
Domestic and Export:													
2 C.W.....	84/4	84/2	87/4	91/4	83/1	80/4	78/4	78/3	76/1	72	70/1	72	79/7
Ex. 3 C.W.....	81/7	82/2	85/4	90/2	81/7	78/3	76/6	76/5	74/1	69/1	67/7	70/3	77/7
3 C.W.....	81/6	81/3	84/4	89/7	81/4	77/6	76/1	75	72/4	69	67/3	69/6	77/2
Ex. 1 Feed.....	81/5	81/3	84/4	89/7	81/4	77/6	75/6	73/7	71/6	69	67/4	70/1	77
1 Feed.....	78/5	78/2	80	84/7	78	74	73/1	72/4	70/5	67/2	65/4	67/1	74/1
2 Feed.....	76/7	76/2	77/4	82/2	75/3	70/7	70/6	71/1	69/1	65/5	63/7	64/7	72
3 Feed.....	74	73/2	74/7	79/6	73	69/2	68/6	69/1	67/1	63/2	61/4	62/5	69/6
BARLEY (Basis in Store Fort William-Port Arthur)													
Domestic and Export:													
1 C.W. Six Row.....	142/6	152/2	156	143/6	127/6	129/3	129/1	129/6	125/4	124/7	123/1	119/4	133/5
2 C.W. Six Row.....	142/6	152/1	156	143/6	127/6	129/3	129/1	129/6	125/4	124/7	123/1	119/4	133/5
3 C.W. Six Row.....	139	150/1	153/4	142/4	126/6	128/3	127/2	127/6	123/5	122/7	122	116/1	131/5
4 C.W. Six Row.....	126/5	135/2	142/1	138/1	121/7	121/3	121/7	121/7	117/7	121/6	121/2	113/4	125/2
1 C.W. Two Row.....	137/4	142/5	147/2	140/6	126/6	128/3	127/2	129/3	128/1	128/1	126	122/1	132
2 C.W. Two Row.....	137/4	142/5	147/2	140/6	126/6	128/3	127/2	129/3	128/1	128/1	126	122/1	132
3 C.W. Two Row.....	134/4	141/4	145/2	138/1	124/3	128/3	127/2	129/6	128/1	128/1	126	122/1	132
1 Feed.....	125/7	131/4	138/6	138/1	121/7	118/2	119/1	121/7	117/7	121/6	121/2	119/1	130/4
2 Feed.....	124/5	130/4	137/5	137/1	120/4	117/2	117/3	120/1	116/2	121/6	121/2	113/4	124/4
3 Feed.....	119/3	126/2	128/2	131	116/3	112/2	112/4	115/5	112/4	118/4	118/3	110/3	122/7
RYE (Basis in Store Fort William-Port Arthur)													
Producers', Domestic, and Export Prices:													
2 C.W.....	183	172/5	174/6	183/2	175/1	161/5	156/1	159	147/6	141/4	128/7	119/1	158/2
3 C.W.....	178	167/6	169/6	178/2	170/1	156/6	151/1	154	142/7	136/4	124/5	114/4	153/5
4 C.W.....	158/4	148/5	153/1	162/7	154/1	139/7	132/4	135/1	130/2	125/1	114/3	103/6	138/1
Ergot.....	165/2	153/3	156	164/7	156/1	142/3	135/4	137/7	130/4	124/1	113/3	102/6	140/1
FLAXSEED (Basis in Store Fort William-Port Arthur)													
Producers', Domestic, and Export Prices:													
1 C.W.....	392/3	373	355	349/5	330/7	314/2	309/3	320/5	311/7	307/5	294/4	288/7	329
2 C.W.....	387/2	367/1	350/4	345/5	326/7	310/2	305/3	316/5	307/3	302/6	289/7	284/4	324/4
3 C.W.....	367/5	347/5	332/7	333/4	316/7	298/6	293/2	304/6	296/3	292/5	281/1	275/7	311/6

¹ Six cents per bushel carrying charge to be added to all monthly averages prior to May. The monthly averages shown for May include the carrying charge wherever applicable. The yearly averages shown include the carrying charge wherever applicable.

² Six cents per bushel carrying charge to be added.

Table H-16.—Tough and Damp Grain Dried at Different Points 1952-53 Crop Year

—	Artificial Drying			Natural Drying	Total
	Tough	Damp	Tough and Damp		
	bu.	bu.	bu.	bu.	bu.
LAKEHEAD					
Wheat.....	1,547,247	303,295	1,850,542	32,318,552	34,169,094
Durum.....	93,223	10,573	103,796	578,132	681,928
Oats.....	242,316	2,902	245,218	2,970,090	3,215,308
Barley.....	1,717,699	356,168	2,073,867	9,194,406	11,268,273
Rye.....	222,123	10,932	233,055	1,003,336	1,236,391
Flaxseed.....	66,847	—	66,847	128,503	195,350
Totals.....	3,889,455	683,870	4,573,325	46,193,019	50,766,344
PACIFIC COAST					
Wheat.....	1,266,878	5,624	1,272,502	8,604,246	9,876,748
Oats.....	19,353	2,109	21,462	228,662	250,124
Barley.....	—	—	—	551,078	551,078
Totals.....	1,286,231	7,733	1,293,964	9,383,986	10,677,950
INTERIOR					
Wheat.....	47,514	18,406	65,920	276,163	342,083
Oats.....	3,261	—	3,261	—	3,261
Barley.....	1,861	986	2,847	—	2,847
Totals.....	52,636	19,392	72,028	276,163	348,191
CHURCHILL					
Wheat.....	—	—	—	497,405	497,405
Grand Totals.....	5,228,322	710,995	5,939,317	56,350,573	62,289,890

APPENDIX I

Report of the Grain Research Laboratory

Following is a report of the Board's Research Laboratory for the year 1953. It presents a brief reference to the quality of grain handled during the 1952-53 crop year and that harvested in 1953, and gives a progress report on Laboratory investigations as well as information on other activities of the Laboratory.

Crop year studies on spring wheat, durum wheat, barley and flax sampled at various stages of marketing and handling during 1952-53 were completed. Spring wheat was well above average in bushel weight and excellent in milling quality but below the long term average in protein content. Durum wheat was also high in bushel weight and although low in protein content was excellent for macaroni-making. Malting barley was desirably low in nitrogen content and high in yield of malt extract. Flax was high in yield of oil of good drying quality. Quality information in full has been compiled and published in "*Grain Research Laboratory 1953 Report*".†

The quality of wheat harvested in 1953 was closely similar to that of the previous crop. Bushel weight is again high, and protein content, although slightly higher than in 1952, is still appreciably below the long-term average. Milling quality is excellent with flour colour and absorption a little higher than for last year's crop. Doughs handled well and the quality of the gluten, as judged by baking performance, was entirely satisfactory.

Acres of durum wheat was reduced by the threat of the new race of stem rust, No. 15B, and production was further reduced by a rather severe epidemic of that race in Manitoba. The crop, estimated at 7.8 million bushels is the lowest since 1945. Macaroni-making quality was about the same, grade for grade, as last year, except that No. 4 C.W. was appreciably higher in yellow pigment.

Malting barley is again of excellent quality and fully comparable to that of 1952. Protein content is desirably low and kernel size is above average. Malt extract yield is high and enzymatic activity of the malt is normal and shows satisfactory balance. The flax crop, with an average oil content of 42.3% and an average iodine value of 188 units, is also closely similar to the crop of 1952.

This information in greater detail was presented to the Committee on Western Grain Standards and is published by the Laboratory in four crop bulletins and two protein maps.*

The Laboratory continued its close co-operation with the Inspection Branch. Assistance was provided in preparing information on the quality of tentative standard samples and tentative standard export samples. Supervision of equipment and technique for moisture testing was continued throughout the year. A co-operative

† Available without charge from Grain Research Laboratory, Board of Grain Commissioners for Canada, Winnipeg, Manitoba.

* These publications are available without charge from the Grain Research Laboratory, Board of Grain Commissioners, Winnipeg, Manitoba, under the following titles:

Crop Bulletin No. 49 Canadian Wheat, 1953

Crop Bulletin No. 50 Protein Survey of Wheat, 1953

Crop Bulletin No. 51 Canadian Barley, 1953

Crop Bulletin No. 52, Canadian Flax, 1953

Protein Content of Hard Red Spring Wheat. Preliminary Maps as at Sept. 30.

Protein Content of Hard Red Spring Wheat. 1953 Final Map.

field trial of the Halross Moisture Meter was begun. Special tests were made on a variety of samples representing carlots of grain; for example, a number of samples were tested for contamination with mercury fungicides.

Under the aegis of the Associate Committee on Grain Research a comprehensive study was made of the milling and baking quality of the new wheat variety, C.T. 186. Ten Canadian, nine British and six United States cereal chemists collaborated. As part of this study a very exhaustive investigation of the milling and baking behaviour and chemical properties of the variety and comparable standards was undertaken in this Laboratory. The Associate Committee subsequently met to consider the results and found C.T. 186 "equal to Marquis". The variety has since been licensed and named Selkirk.

Steady progress has been made throughout the year in the research work of the Laboratory. In the bread wheat section studies of the physical properties of doughs have been continued. The big problem in the chemistry of bread wheats is the nature of the cohesive and elastic properties of dough. Insight into these is being sought by measuring changes in dough properties under controlled treatments. Effects of oxygen and temperature have been studied with the Extensograph, and preliminary work has been done with lactic and acetic acids. The main study with the "G.R.L. Relaxometer" involved comparisons of the behaviour of doughs at different temperatures. At lower temperatures the relaxation rate is slower and the initial phase of the process can be more readily studied. Some work was also undertaken with the "Research Extensometer" and "Research Absorption Meter", manufactured in England. The principal object was to acquaint the Laboratory with the possibilities of this equipment which is quite widely used in the United Kingdom for assessing the quality of Canadian and other wheats.

The Laboratory was invited to present a paper on the physical properties of dough at the Second International Congress on Rheology, held at Oxford. Dr. I. Hlynka, represented the Laboratory at this meeting and also visited a number of the leading cereal laboratories in the United Kingdom.

The durum wheat section has continued studies of oxidizing enzymes. A more precise and comprehensive study has been made of the activation energies of the wheat lipoxidase system and of the heats of formation of the enzyme-substrate complex. A survey has also been made of the effect of environment during growth on the lipoxidase activity of durum wheats. Similar studies of activation energies, the effects of environment, and of variety have been made for catalase activity. Moreover, this enzyme has been separated into two fractions by dialysis which brings about precipitation of an active and stable catalase preparation; though the solution still contains an active but soluble fraction. Exploratory studies with six other oxidizing enzymes, some of which have been reported in ground whole wheat, show that none occurs in significant amounts in wheat endosperm. Mention may also be made of an improvement in the laboratory procedure for making macaroni; this involves mainly a substantial saving in time by developing a procedure for reducing the drying time from 48 to 24 hours.

The malting barley section has made further progress in studies of barley and malt gums and the enzymes that attack them. Work on the gums has involved standardization of the isolation procedures, separation of beta-glucosan and pentosan fractions, and comparison of the hydrolytic products of barley and malt gums by chromatography and quantitative determination of sugars. In the enzyme work, a beta-glucosanase and a pentosanase have been isolated from malt. Work is currently being carried out on the development of these enzymes during the malting

process. A new steep tank for laboratory malting has been completed and fully tested. A new model of a germination chamber produced good malt, but damage to rootlets during growth was considered to be excessive; experiments are therefore planned with a different design.

Studies in the analytical section have dealt with three projects. In view of the large inter-laboratory errors that occasionally occur in the determination of the gassing power of flour, it seemed advisable to make a detailed study of the sources of errors of the present method. An amperometric method that seems promising has been developed for the determination of bromate in flour. Considerable work has also been undertaken on the refinement of a method for detecting mercury in grain, and on the development of a micro method for examining small samples of about 10 kernels or less.

The research and routine investigations of the Laboratory were reviewed in April by a committee of scientists appointed by the National Research Council at the Board's request. The committee spent two days in the Laboratory and made a number of valuable recommendations.

Several commitments made by the writer during the past two or three years have recently been completed. These included: Preparation of a bulletin on "Canadian Wheat and Flour", in co-operation with the Information Branch and the Grain Division of the Department of Trade and Commerce; and editing of a monograph "*Storage of Cereal Grains and their Products*", with Mr. A. W. Alcock, for the American Association of Cereal Chemists. The writer also completed his term as President of the American Association of Cereal Chemists.

In accordance with past practice, a detailed report on the work of the Grain Research Laboratory has been prepared for publication to put on record data on the quality of Canadian crops and progress reports on Laboratory investigations.

Respectfully submitted,

J. ANSEL ANDERSON,
Chief Chemist.

APPENDIX J

Operation of the Canadian Government Elevators

This Appendix reports on the operation of the Canadian Government Elevators during the 1952-53 crop year and for the fiscal year ended March 31, 1953.

Elevators Operated and Leased

The interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge, and the elevator at Prince Rupert were continued in operation during the 1952-53 crop year under public terminal elevator licences. The Canadian Government Elevator at Port Arthur is still under lease to McCabe Grain Company Limited.

Tariff of Charges

The tariff of charges at all elevators operated remained the same during 1952-53 as they were during the previous crop year.

Volume of Grain Handled

The volume of grain handled in 1952-53 was 27.6 million bushels, an increase of 6.6 million over the 1951-52 crop year. This increase was almost entirely due to increased handlings at the Prince Rupert Elevator. Comparative figures for grain receipts at each elevator for 1951-52 and 1952-53 crop years are shown in the following table:

Elevator	1951-52	1952-53	Decrease	Increase
	bu.	bu.	bu.	bu.
Moose Jaw.....	2,685,525	3,608,018	—	922,493
Saskatoon.....	2,996,106	3,719,925	—	723,819
Calgary.....	3,889,280	3,797,912	91,368	—
Edmonton.....	3,759,060	2,755,345	1,003,715	—
Lethbridge.....	1,048,807	1,117,043	—	68,236
Prince Rupert.....	6,603,976	12,580,055	—	5,976,079
Totals.....	20,982,754	27,578,298	—	6,595,544

Maintenance of Buildings and Equipment

The buildings, equipment and trackage at all points have been maintained in good operating condition by repairs and necessary replacements.

Organization and Staff

In accordance with a policy of the Board of Grain Commissioners relating to centralization of offices at Winnipeg, the Head Office of the Canadian Government Elevators was moved from Fort William to Winnipeg in January, 1953. Five employees were moved and joined with the Government Elevators Winnipeg representative to establish the Head Office in the Grain Exchange Building, Winnipeg. Mr. Ralph Hetherington, General Manager, retired after thirty-eight years' service, and Mr. A. E. Jacobson, previously at the Canadian Government Elevator at Moose Jaw, was transferred to Winnipeg and appointed General Manager.

Financial Results of Operations

Revenue from all sources during the fiscal year ended March 31, 1953, amounted to \$1,514,295.20, a decrease of \$203,308.61 from the previous fiscal year. Operating expenses were \$1,070,623.08, an increase of \$168,357.15 over the previous year. There was a surplus of revenue over expenditure in the amount of \$443,672.12 as compared with a surplus of \$815,337.88, the previous fiscal year. As in former years, no provision is made in the financial statement to cover depreciation of buildings and equipment; expenditures for their maintenance are included in operating costs.

Respectfully submitted,

A. E. JACOBSON,
General Manager.

BOARD OF GRAIN COMMISSIONERS

City	Inspection	100,280 01	81 20	395 50	2,685 20	8 00
Calgary	Weighing	19,507 69	1,704 26	—	—	—
	Appeal Tribunal	1,563 00	—	—	—	—
Edmonton	Inspection	122,115 36	164 85	481 50	3,184 54	—
	Weighing	6,305 57	64 68	—	—	—
	Appeal Tribunal	1,548 00	—	—	—	—
Vancouver	Inspection	258,082 58	11,614 88	4 00	11,005 26	—
	Weighing	204,616 41	12,564 94	—	—	—
	Registration	10,491 70	—	—	—	—
Fort William	Inspection	1,042,882 58	61,216 03	—	1,661 50	50 29
	Weighing	797,530 17	52,382 70	—	—	30 00
Toronto	Inspection	8,346 16	199 60	124 00	1 00	—
Montreal	Inspection	2,115 47	1,583 99	3,144 82	1,326 60	—
	Registration	12,465 23	—	—	—	—
Chatham	Inspection	25,699 82	1,174 36	25,309 50	798 23	—
Prince Rupert	Inspection	25,641 87	874 29	—	590 03	—
	Weighing	18,651 13	1,197 90	—	—	—
Kenora	Weighing	2,549 94	17 28	—	—	—
Duluth	Inspection	15,280 25	1,518 90	—	—	—
Buffalo	Inspection	11,038 12	3,622 20	—	—	—

Table K-2.—Details of EXPENDITURE for Fiscal Year ended March 31, 1953 by Point, Branch and Main Objects of Expenditures

Point	Branch	Salaries		Rent		Travelling Expenses		General Expenses		Printing and Stationery	
		\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
Winnipeg	Executive.....	77,541 81		7,349 16		4,189 00		6,273 80		3,169 59	
	Assistant Commissioner.....	6,124 98		646 40		1,317 02		868 96		36 00	
	License and Bonding.....	21,107 87		1,943 28		—		587 03		1,952 01	
	Accounts.....	13,894 68		—		—		493 06		654 36	
	Registration.....	26,679 40		2,310 70		—		1,028 58		491 78	
	Research Laboratory.....	116,828 76		16,624 80		2,328 93		26,158 72		4,716 83	
	Appeal Tribunal.....	—		584 40		—		1,434 67		5 84	
	Standard Committee.....	549,881 63		25,252 40		2,609 20		1,860 00		—	
	Inspection.....	46,038 89		2,077 20		3,747 29		24,458 65		11,208 37	
	Weighing.....	—		—		745 14		876 22		482 52	
Churchill.....	Inspection.....	12,769 59		—		5,698 60		9 47		—	
	Weighing.....	6,883 41		—		3,318 70		17 22		—	
Keewatin.....	Inspection.....	5,711 64		—		—		—		34 96	
	Weighing.....	7,189 13		—		—		58 16		—	
Saskatoon.....	Assistant Commissioner.....	10,532 40		5 00		3,184 42		748 50		103 25	
	Inspection.....	33,851 60		877 00		—		596 20		194 14	
	Weighing.....	22,333 28		—		—		24 00		—	
Moose Jaw.....	Inspection.....	29,921 31		1,296 00		—		927 43		255 87	
	Weighing.....	16,025 71		—		—		24 80		—	
Medicine Hat.....	Inspection.....	10,597 26		841 00		—		131 92		92 96	
	Weighing.....	10,634 01		—		—		95		—	
Lethbridge.....	Inspection.....	9,494 90		—		—		101 00		35 08	
	Weighing.....	5,990 00		—		—		13 50		—	

Calgary.....	Assistant Commissioner.....	11,077 99	828 00	3,417 24	339 86	49 75
	Inspection.....	78,427 01	3,001 00	—	2,933 25	1,675 66
	Weighing.....	36,482 98	314 04	25 55	206 65	—
	Appeal Tribunal.....	5,584 00	420 00	—	1,498 65	17 02
Edmonton.....	Inspection.....	96,625 75	6,729 00	48 08	3,715 71	1,663 16
	Weighing.....	10,946 27	—	469 19	60 25	—
	Appeal Tribunal.....	6,424 00	967 50	—	1,296 45	4 32
Vancouver.....	Inspection.....	145,555 59	6,913 20	1,163 82	5,018 50	1,567 05
	Weighing.....	156,275 45	2,655 70	1,278 12	2,399 00	906 28
	Registration.....	5,216 14	1,781 60	—	266 04	17 02
Fort William.....	Inspection.....	669,582 55	16,634 00	4,471 14	15,238 81	8,635 23
	Weighing.....	485,291 82	3,509 00	19,696 76	6,394 41	5,545 31
	Statistical.....	60,393 22	6,601 48	4,639 60	7,634 36	5,836 17
Toronto.....	Inspection.....	8,567 77	1,200 00	419 25	584 01	74 44
Montreal.....	Inspection.....	82,912 88	4,217 00	9,926 27	1,763 31	474 55
	Weighing.....	3,930 00	921 41	189 35	305 56	149 10
	Registration.....	8,894 82	1,044 92	—	472 85	466 40
Chatham.....	Inspection.....	31,058 79	1,140 00	17,340 53	1,770 40	289 69
Prince Rupert.....	Inspection.....	6,132 40	—	2,103 16	167 50	—
	Weighing.....	5,718 32	—	2,072 82	81 52	—
Kenora.....	Weighing.....	2,567 22	—	—	—	—
Duluth.....	Inspection.....	4,804 50	—	4,039 49	181 65	—
Buffalo.....	Inspection.....	3,622 20	—	9,582 40	74 65	—

Table K-3.—Summary of Operations by Branches

	Inspection		Weighing		Appeal Board		Registration		License and Bonding		Statistics		Accounting		Research Laboratory		Grain Standards Committee		Administration		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
REVENUE																						
Fees.....	2,239,637	58	1,117,044	12	4,974	00	65,946	90	29,261	00	—	—	—	—	—	—	—	—	—	—	3,456,863	60
Overtime.....	86,170	87	70,790	76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	156,961	63
Sampling.....	37,042	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37,042	32
Express Charges.....	4,666	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,666	50
Cargo Splits.....	3,611	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,611	20
Samples Sold.....	57,111	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57,111	12
Condition Reports.....	—	—	336	75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	336	75
Jury Fees.....	50	29	30	00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80	29
Fines.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,385	00	1,385	00
Refund of Previous Year's Expenses.....	9	05	15	40	—	—	—	—	—	—	—	—	—	—	5	13	—	—	—	—	29	58
Totals.....	2,428,293	93	1,188,217	03	4,974	00	65,946	90	29,261	00	—	—	—	—	5	13	—	—	1,385	00	3,718,067	99

EXPENDITURE

Salaries.....	1,779,527 37	816,286 49	17,488 00	40,780 36	21,107 27	60,393 22	13,894 68	115,828 76	—	105,277 18	2,970,593 33
Rent.....	68,100 60	9,477 35	1,971 90	5,137 22	1,943 28	6,601 48	—	16,024 80	—	8,828 56	118,685 19
Travel.....	58,540 03	27,795 63	—	—	—	4,639 60	—	2,328 93	2,609 20	12,107 68	108,021 07
Expenses.....	57,692 46	10,552 24	4,229 77	1,767 47	587 03	7,634 36	493 06	26,158 72	1,860 00	8,231 12	119,206 23
Printing and Stationery..	26,231 16	7,083 21	27 18	975 20	1,952 01	5,836 17	654 36	4,716 83	—	3,358 59	50,834 71
Totals.....	1,990,091 62	871,194 92	23,716 85	48,670 25	25,589 59	85,104 83	15,042 10	165,658 04	4,469 20	137,803 13	3,367,340 53

Total Revenue.....	\$3,718,087 99
Total Expenditures.....	3,367,340 53
Net Surplus.....	<u>\$ 350,747 46</u>

Table K-4.—Statement showing Revenue and Expenditure by Points and Branches

—	Inspection		Weighing		Appeal Board		Regis- tration		License and Bonding		Statistics		Accounting		Research Laboratory		Grain Standards Committee		Adminis- tration		Total		
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	
REVENUE																							
Winnipeg.....	579,311	43	24,001	41	1,863	00	42,989	97	29,261	00	—	—	—	—	5	13	—	—	1,385	00	678,816	94	
Churchill.....	28,643	83	14,454	84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	43,098	67	
Keewatin.....	151	80	6,049	24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,201	04	
Saskatoon.....	23,652	35	11,208	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34,861	05	
Moose Jaw.....	17,662	94	9,273	61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26,936	55	
Medicine Hat.....	7,675	89	4,433	06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12,108	95	
Lethbridge.....	5,376	14	1,672	94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7,049	08	
Calgary.....	103,421	91	21,211	95	1,563	00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	126,196	86	
Edmonton.....	125,946	25	6,370	25	1,548	00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	133,864	50	
Vancouver.....	280,798	32	217,181	85	—	—	10,491	70	—	—	—	—	—	—	—	—	—	—	—	—	508,471	87	
Fort William.....	1,126,632	04	849,942	87	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,976,574	91	
Toronto.....	8,798	56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,798	56	
Montreal.....	8,679	90	—	—	—	—	12,465	23	—	—	—	—	—	—	—	—	—	—	—	—	21,145	13	
Chatham.....	52,981	91	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52,981	91	
Kenora.....	—	—	2,567	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,567	22	
Prince Rupert.....	27,106	19	19,849	09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46,955	28	
Duluth.....	16,799	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16,799	15	
Buffalo.....	14,660	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,660	32	
Totals.....	2,428,298	93	1,188,217	63	4,974	00	65,946	90	29,261	00	—	—	—	—	5	13	—	—	1,385	00	3,718,087	99	

BOARD OF GRAIN COMMISSIONERS

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EXPENDITURE

Winnipeg.....	614,568 34	50,219 97	7,504 91	30,510 46	25,589 59	—	15,042 10	165,658 04	4,469 20	107,516 72	1,021,069 33
Churchill.....	18,477 66	10,219 33	—	—	—	—	—	—	—	—	28,696 99
Keewatin.....	5,746 60	7,247 29	—	—	—	—	—	—	—	—	12,993 89
Saskatoon.....	35,518 94	22,357 28	—	—	—	—	—	—	—	14,573 57	72,449 79
Moose Jaw.....	32,430 61	16,050 51	—	—	—	—	—	—	—	—	48,481 12
Medicine Hat.....	11,663 14	10,634 96	—	—	—	—	—	—	—	—	22,298 10
Lethbridge.....	9,630 98	6,003 50	—	—	—	—	—	—	—	—	15,634 48
Calgary.....	86,066 92	37,069 22	7,519 67	—	—	—	—	—	—	15,712 84	146,388 65
Edmonton.....	108,781 70	11,475 71	8,692 27	—	—	—	—	—	—	—	128,949 68
Vancouver.....	160,218 16	163,514 55	—	7,280 80	—	—	—	—	—	—	331,013 51
Fort William.....	714,561 73	520,437 30	—	—	—	85,104 83	—	—	—	—	1,320,103 86
Toronto.....	10,845 47	—	—	—	—	—	—	—	—	—	10,845 47
Montreal.....	99,294 01	5,495 42	—	10,878 99	—	—	—	—	—	—	115,668 42
Chatham.....	51,599 41	—	—	—	—	—	—	—	—	—	51,599 41
Kenora.....	—	2,567 22	—	—	—	—	—	—	—	—	2,567 22
Prince Rupert.....	8,403 06	7,872 66	—	—	—	—	—	—	—	—	16,275 72
Duluth.....	9,025 64	—	—	—	—	—	—	—	—	—	9,025 64
Buffalo.....	13,279 25	—	—	—	—	—	—	—	—	—	13,279 25
Totals.....	1,990,991 62	871,194 92	23,716 85	48,676 25	25,589 59	85,104 83	15,042 10	165,658 04	4,469 20	137,803 13	3,367,340 53

Total Revenue.....	\$ 3,718,087 99
Total Expenditure.....	3,367,340 53
Net Surplus.....	\$ 350,747 46

APPENDIX L

Regulations

Regulations made in accordance with the provisions
of the Canada Grain Act, in effect December 31, 1953

Regulation
No.

- 1 Registration and Cancellation of Terminal Elevator Warehouse Receipts.
- 2 Registration and Cancellation of Eastern Warehouse Receipts and
Transfer Receipts.
- 3 Construction of Elevators.
- 4 Cleaning Grain and Bins, Terminal Elevators.
- 5 Off Grades for Western Grain.
- 6 Off Grades for Eastern Grain.
- 7 Grades of Screenings.
- 8 Inspection of Samples Taken other than at an Inspection Point.
- 9 Appeals from Inspecting Officers to Grain Appeal Tribunals.
- 10 Delivery of Grain to Ocean Vessels at Montreal, Quebec.
- 11 Delivery of Grain to Ocean Vessels at West Saint John, N.B.
- 12 Delivery of Grain to Ocean Vessels at East Saint John, N.B.
- 13 Delivery of Grain to Ocean Vessels at Halifax, N.S.
- 14 Enforcement of Lien by Sale of Grain.
- 15 Drying of Grain.
- 16 Fees.
- 17 Records, Reports and Returns.
- 18 Procedure, Country Elevators.
- 19 Receipt for Grain Delivered to Private Country Elevators and Mill
Elevators.
- 20 Maximum Tariff of Charges, Eastern Elevators.
- 21 Maximum Tariff of Charges and Shrinkage Allowance, Country
Elevators.
- 22 Maximum Tariff of Charges, Terminal Elevators.
- 23 Applications for licences and terms and conditions under which licences
are issued.
- 24 Receipt for storage in transit for reshipment out of Canada of grain
grown outside Canada.
- 25 Tickets and Receipts—Country Elevators.
- 26 Delivery of Treated Grain to Elevators.

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Board of Grain Commissioners FOR CANADA

DEPARTMENT OF TRADE AND COMMERCE

Rt. Hon. C.D. Howe M.P. Minister,

Wm. Frederick Bull, Deputy Minister



CANADA

Report for 1954

CAIDA 12
A56

BOARD OF
GRAIN COMMISSIONERS FOR CANADA

ANNUAL REPORT
for
1954



DEPARTMENT OF TRADE AND COMMERCE
OTTAWA, CANADA

Minister:
RT. HON. C. D. HOWE, M.P.

Deputy Minister:
WM. FREDERICK BULL

EDMOND CLOUTIER, C.M.G., O.A., D.S.P.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1955

Price, 50 cents

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WINNIPEG, Manitoba,
January 21, 1955.

The Right Honourable C. D. Howe, M.P.,
Minister of Trade and Commerce,
Ottawa, Canada.

SIR,—We beg to submit herewith Annual Report of the Board of Grain Commissioners for Canada for the year 1954 in compliance with section 23 of the Canada Grain Act.

This report records information and statistics relating to grain handlings for the crop year August 1, 1953 to July 31, 1954, expenditures and revenue for the fiscal year April 1, 1953 to March 31, 1954, and summarizes the major activities of the Board and its branches for the 1954 calendar year.

Summaries are given in the first and main portion of this report, and additional information submitted by various branches and supported by tables of data is presented in Appendices A to M which follow the main section.

General

The 1953-54 crop year began with a carryover of 645 million bushels of wheat, oats, barley, rye and flax at August 1, 1953. To this was added a harvest estimated by the Dominion Bureau of Statistics at 1,322 million bushels, making a total available supply of 1,967 million bushels of the five principal grains for disposition. Comparable figures for the previous crop year show a carryover of 416 and a record production of 1,483 to make a total supply of 1,899 million bushels.

Commercial disappearance of Canadian grain during 1953-54 amounted to 1,084 million bushels or 57 per cent of supply. Of this 438 million were exported and the remaining 646 million bushels were used for domestic needs including feed, seed and human consumption. These figures show a decline of 145 million bushels (25 per cent) in export from the previous record year, and 25 million (3.7 per cent) decline in domestic use. Resulting carryover at August 1, 1954 of the five principal grains on farms, in elevators and in transit was a record 883 million bushels going into the 1954-55 crop year. Wheat stocks alone totalled 590 million bushels.

Late seeding, a severe rust epidemic and inclement harvesting weather in the West made the 1954 harvest at 814 million bushels one of the lowest in several years. The record carryover referred to above together with this harvest makes a total supply of 1,697 million bushels of the five grains.

The sustained high volume of production and handling demanded a corresponding volume of work and services from the Board's officers and staffs to facilitate the movement of grain. Filled storage facilities created some problems but on the whole there was very little spoilage of grain resulting from this congestion.

The comparative table given below shows production, movement and disappearance of the five principal grains. For more detailed background information on production, disposition and carryover, data are given in the report of the Statistics Branch, Appendix H.

	1952-53	1953-54	1954
	million bushels		
Carryover into crop year.....	415.6	654.4	883.5
Production.....	1,483.2	1,321.7	813.6
Supply.....	1,898.8	1,967.1	1,697.1
Producers' Marketings.....	850.5	616.4	—
Total disappearance.....	1,253.4	1,083.6	—
Export.....	582.8	437.9	—
Domestic Use.....	670.6	645.7	—

Licensing and Bonding

At the end of the 1953-54 crop year, 5,530 licences to operate under the Canada Grain Act were in force representing a total storage capacity of 574 million bushels in country, terminal, mill and eastern elevators. This represents an increase of 17 licences and 23 million bushels capacity over the previous year.

Country elevator capacity at 327 million bushels showed an increase of 15 million bushels; in addition supplementary storage annexes to country elevators having a capacity of 4.8 million bushels were authorized, an increase of 1.5 million over last year. Terminal and mill elevator capacity at 154 million showed a 3 million bushel increase, and eastern elevator capacity was up by 4 million bushels to 89 million.

The Board has continued to collect from licensees the one per cent levy under the Prairie Farm Assistance Act, and collections of eight million dollars were made and remitted during the 1953-54 crop year. Further details on licences and bonds and collections under the P.F.A.A. are given in Appendix D to this report.

Assistant Commissioners

Effective January 15, 1954, Mr. Walter Spence Frazer was appointed Assistant Grain Commissioner for Manitoba. Assistant Commissioners A. G. McLean and M. M. MacKinnon have continued to serve in Saskatchewan and Alberta respectively.

Assistant Commissioners inspected 658 elevators in Manitoba, 588 in Saskatchewan and 1,153 in Alberta. Irregularities in the matter of equipment, such as scales, sieves, sample boxes and lockers and the posting of licence and regulations, were drawn to the attention of the agents and where necessary, to the attention of licensees. Tickets and receipts were checked to ensure that these were properly made out and that only the allowed shrinkage was deducted. In addition, several seed treating installations were checked to assure proper segregation of treated grain from elevator stocks.

Assistant Commissioners also inspected buildings such as coal sheds, flour storage sheds, etc., before the Board authorized use of these buildings for emergency wheat storage.

Any agents who had consistent or excessive overages on country elevator operations were interviewed with a view to determining the cause of these overages. If they had not been called to appear before the Board in this connection, they were warned of the action which would be taken in cases of continued accumulation of excessive overages.

Assistant Commissioners investigated a total of 91 complaints during 1954. This compares with 148 investigated during the previous year. Seven complaints originated in Manitoba, sixty-two in Saskatchewan, eight in Alberta, and fourteen were carried over from the previous year.

In addition to complaints, a large number of inquiries respecting the operation of the car order book were dealt with, and where inequalities were found, solutions were worked out and situations corrected. The majority of car order book complaints originated in Saskatchewan.

After investigation of the complaints which related to grain handling at country elevators, shipments from country elevators, irregularities in car order book procedure and other operations of licensees under the Canada Grain Act, they were disposed of as follows:

	Manitoba	Saskatchewan	Alberta	Total
No grounds for complaint.....	4	22	3	29
Settlement effected.....	2	15	2	19
Outside jurisdiction of Board.....	1	—	—	1
Licensee fined or penalty applied.....	—	18	2	20
Licensee warned.....	—	14	1	15
Complaint withdrawn.....	—	1	1	2
Not yet disposed of.....	—	3	2	5
Totals.....	7	73	11	91

Prosecutions

Twenty-five penalties for breaches of the Canada Grain Act and Board's Regulations amounting to \$1,730.00 were levied and collected as follows:

Number of Penalties	Contravention	Amount
1	Section 68 (2), Canada Grain Act.....	\$ 75.00
8	Section 109, Canada Grain Act.....	155.00
2	Section 110, Canada Grain Act.....	125.00
14	Board Regulation No. 18.....	1,375.00

Shortages and Overages—Country Elevators

Country elevator annual returns for the 1953-54 crop year, which were submitted to the Board as required by section 10 of Board's Regulation No. 17, have been examined and the results tabulated. Owing to the very congested storage conditions, only 1,087 out of 5,130 elevators were able to weigh over during the crop year.

Of these 1,087 country elevators, many reported shortage or overage positions on the basis of handlings for periods of two, three and even four years. The following table shows the number of weighed over elevators reporting shortages and the number reporting overages in different ranges. Data for 1952-53 are also given for comparison:

Elevators Reporting	1953-54	1952-53
Shortages.....	356	640
Neither overages nor shortages.....	6	19
Overages of less than .25%.....	420	893
Overages of .25% to .50%.....	195	351
Overages over .50%.....	110	115
Total elevators weighed over.....	1,087	2,018

Where the Board was of opinion that overages on public country elevator operations were excessive as revealed in 1952-53 and previous records, hearings were held during 1954 to examine operations of the offending agents. Fourteen hearings were held at five points in Manitoba and Saskatchewan, and 104 elevator agents with unsatisfactory records were summoned to appear before the Board to show why the Board should not refuse to license any country elevator at which the persons concerned acted as agents of licensees. In addition to these hearings, Commissioner Vallance and the Assistant Grain Commissioner M. M. MacKinnon, held interviews with eight elevator agents in Alberta in connection with their unsatisfactory records. Country elevator superintendents and management officials of companies concerned were ordered by the Board to be present at all hearings to give explanations concerning accumulation of excessive overages.

Car Order Book

Car order book procedure is established under sections 61 to 76 of the Canada Grain Act. Operation of this statutory procedure has been made difficult by reason of the necessity of the Canadian Wheat Board to move from country points specific kinds and grades of grain for export and domestic sales. The Transport Controller by an order of October 2, 1953, reissued on August 10, 1954, provided that applications for cars in the car order book would be passed over temporarily and not cancelled if the applicants could not ship grain due to Canadian Wheat Board restrictions; and that cars would be supplied in turn after prohibitions were removed.

Under provisions of subsection (2) of section 68 of the Canada Grain Act, the Board authorized 1,827 cars out of turn to move seed and out-of-condition grain, and to move or reduce stocks in country elevators and annexes in danger of collapse. Following is a breakdown of cars authorized with figures for 1953 included for comparison:

Purpose	1954	1953
Grain out of condition.....	555	866
Elevators and annexes in danger of collapse.....	1,013	1,104
Elevators and annexes flooded.....	136	138
Seed grain.....	5	13
Grain fumigated for rusty grain beetle infestation.....	104	625
Others.....	14	55
Totals.....	1,827	2,801

On December 17, 1954, after consultation with the Canadian Wheat Board, the Board issued authority to the railways under provisions of subsection (2) of section 68, to supply cars for shipment of damp grain under special Permit 100 in order to facilitate movement of damp grain from country points to drying positions.

Regulations of the Board

The following amendments were made to Board Regulations during 1954:

Regulation No. 16—Effective January 28, 1954, to eliminate a ten-cent charge for additional copies of weight certificates on outward shipments in carlots. Published in the *Canada Gazette* of February 24, 1954, p. 96, SOR/54-32.

Effective March 1, 1954, to provide for a schedule of charges for casual weighing and inspection service at country elevators at points where inspection and weighing services are maintained; also to provide for recovery from licensees of overtime paid by the Board in connection with inspection and weighing service and to allow for certain exemptions. Published in the *Canada Gazette* of March 24, 1954, p. 194, SOR/54-78.

Regulation No. 18—Effective March 1, 1954, to clarify carloading procedure at country elevators. Published in the *Canada Gazette* of March 24, 1954, p. 194, SOR/54-78.

All Regulations in effect on August 1, 1954, were published in consolidated form in the *Canada Gazette* in accordance with requirements of section 19 of the Canada Grain Act. They appeared in the issue of August 25, 1954 (p. 1011 to 1061, SOR/54-348). The following revisions and amendments were made to seven of the Regulations effective from August 1, 1954.

Regulation No. 2—Section 17 was amended to require reporting of weekly instead of daily balance in store at eastern elevators in connection with registration and cancellation of eastern warehouse receipts and transfer receipts.

Regulation No. 18—Section 10 was amended to permit use of cleaning receipt forms other than forms specified in schedule to this regulation, subject to approval by the Board.
Section 19 was amended to place additional restrictions on treating of grain with fungicides at country elevators.

Regulation No. 20—Changes in numbering and in editorial form were made to make this regulation consistent with the form of other regulations.

Regulation No. 21—Section 6 was amended to specify deduction of allowances for shrinkage and invisible loss in percentage terms, and to provide alternative tables for deduction of these allowances either in pounds or in tenths of bushels. Shrinkage on damp grades of rye was reduced from $1\frac{1}{2}$ per cent to 1 per cent.

Regulation No. 22—Changes in numbering and form were made to make this regulation consistent with others. Allowance for invisible loss and shrinkage on grain delivered to terminal elevators in railway cars was converted to tenths of bushels, and invisible loss and shrinkage on grain received at terminals from wagons or trucks was set out in the same manner as in Regulation No. 21.

Regulation No. 24—Section 4 dealing with storage in transit of grain grown outside Canada was amended to require reporting of storage position only when change occurs instead of reporting daily.

Regulation No. 25—A new section 4 was added to allow variation in forms of tickets and receipts to facilitate deduction of shrinkage allowance prior to conversion of grain weight to bushels.

Inspection of Grain

Inspection of grain during 1953-54 revealed no severe or widespread degrading characteristics. However, the northern areas of the Prairie Provinces in 1953 harvested some low-grade, immature and frosted wheat, and crops in southern Manitoba and south-eastern Saskatchewan suffered some damage from race 15-B rust which lowered bushel weight of wheat and barley. The central areas of Saskatchewan and Manitoba produced above-average crops and Alberta was average except for hail damage in the west central portion. Harvest weather was good and only slightly over eight per cent of all grain graded into the tough and damp grades as against more than fourteen per cent in the 1952-53 crop year.

The volume of inspections was lower by 25 per cent for primary carlot inspections but was still above the average for the previous ten years. Inspections to vessels totalled 476 million bushels or 120 million bushels less than the previous crop year.

Grain Drying

In 1953-54 only .1 per cent of all grain graded damp and 8.2 per cent graded tough. Accordingly, drying was not as extensive as in the previous year. Only 35.8 million bushels were artificially and naturally dried as compared with 62.2 million bushels during the previous crop year. Of the 1953-54 total, 8.5 million were dried artificially and 27.3 million bushels were dried naturally. Details on drying by point and grain are given in Table H-11 in Appendix H.

Research

The Board's Research Laboratory has continued quality studies on grain crops sampled at different stages of marketing and handling. Usual assistance was given to the Grain Inspection Branch in evaluating new crops and data on standard and export standard samples were provided to the Western Committee on Grain Standards. The Laboratory also serves as scientific consultants to the Board in complaints and inquiries. During the year this Branch was required to develop a sensitive test to determine presence of mercury in grain to check and control possible entry into commercial channels of grain treated with fungicides.

Research on certain basic factors relating to quality of grain and its products has been carried on and the Laboratory collaborated with plant breeders by testing new grain varieties.

Four crop bulletins and two protein maps have been published and an annual report is in press to provide information to millers and overseas buyers, and to put on record quality data on grain. In addition, results of research were published in various scientific journals. List of laboratory publications are given in Appendix M and the work of this Branch is dealt with in greater detail in Appendix I.

Committees on Grain Standards

Committees on Grain Standards for the crop year 1954-55 were constituted by the Board in accordance with section 25 of the Canada Grain Act. Personnel of the Western and Eastern Committees is listed in Appendix B to this report.

The Western Committee was convened in Winnipeg on October 14, 1954, and again on November 18, 1954, to select and settle standard and standard export samples and to name and define commercial grades of grain in accordance with sections 27 and 29 of the Canada Grain Act. The Committee named and defined a new commercial grade Extra No. 2 Feed Barley to be established effective August 1, 1955. It also recommended that Schedule One to the Canada Grain Act be amended to restrict grade No. 3 Canada Western Amber Durum to Mindum or varieties equal to it in macaroni-making quality, and named and defined a new commercial grade Extra No. 4 Canada Western Amber Durum to be effective from August 1, 1955, subject to amendment of the Canada Grain Act. The Committee also recommended redefinitions for statutory grades of Soybeans as shown in Schedule One to the Act.

The Eastern Committee met in Toronto on August 20 and again on November 25, 1954, to select and settle standard samples of Eastern and United States grain. This Committee also recommended redefinitions for the statutory grades of Soybeans as shown in Schedule Two to the Canada Grain Act.

Complaints on Export Shipments

Twenty-nine complaints in respect to overseas shipments were received during the year and two unsettled cases were brought forward from the previous year. This compares with seventeen complaints on overseas shipments handled in 1953. After thorough investigations, disposition was as follows:

	Quality	Shortage
No cause of reported discrepancy found.....	—	19
No grounds for complaint.....	8	—
Not yet disposed of.....	1	3
Totals.....	9	22

Weighing of Grain

All grain received at or shipped from licensed terminal elevators was weighed by the Board's weighing staff in accordance with sections 33 and 124 of the Canada Grain Act, and the same service was provided at licensed mill elevators on request. Officers of the Weighing Branch also inspected scales and equipment, and investigated outturn shortages on vessel shipments. Details of the work of this Branch are given in Appendix G.

Weighover of Stocks—Terminal and Eastern Elevators

In accordance with sections 139 and 140 of the Canada Grain Act, 34 terminal and 19 eastern elevators were weighed over during the 1953-54 crop year. Due to large stocks in store, the Board deferred weighovers into the next crop year at 13 terminal and 6 eastern elevators under authority of section 141 of the Canada Grain Act. One elevator at change of ownership was sounded by the Board's weighing officials and found empty.

Results of annual weighovers are given in Tables A-1 to A-5 of Appendix A. These weighovers did not disclose any excessive overages as defined by the above sections of the Act.

Terminal and Eastern Complaints

In 1954 the Board received seventeen complaints in connection with handling of grain at terminal elevators and shipment to Eastern Canada. All related to outturn shortages. In addition, six uncompleted cases were brought forward from the previous year. This compares with thirty-two complaints handled in 1953. Disposition was as follows:

	Quality	Shortage	General
No cause of reported discrepancy found.....	—	11	1
Settlement effected.....	1	6	—
Not yet disposed of.....	—	4	—
Totals.....	1	21	1

Statistics

Statistics relating to Canadian grain movement collected and compiled by the Board's Statistics Branch and other work of this Branch, are presented in Appendix H of this report. A list of statistical releases and publications are given in Appendix M.

Information Program

Continuing the program started in 1953, the exhibit outlining the functions of the Board was displayed at exhibitions and summer fairs at Brandon, Edmonton, Vermilion, Vegreville, North Battleford and Lethbridge for a total of 23 days. Judging by the interest shown and comments received, this project appears to have real value in placing before farmers and others, information about the handling of grain under provisions of the Canada Grain Act. Wide distribution of the booklet *The Farmer and the Country Elevator* was made at these fairs and exhibitions, and distribution has continued throughout the year.

A print of the Board's film "Grain Handling in Canada" which was referred to in last year's annual report, was received in September. The reaction from initial showings indicates that producer audiences find the film informative in outlining the various stages in the handling of grain from producer to export channels. The film has not yet been released for general distribution as the Board requested the National Film Board to make some minor changes. The film will be available early in 1955.

During the early harvest period of 1954 heavy rains and restricted deliveries created serious problems for farmers. The Board's Chief Chemist was requested to prepare and give a series of five-minute radio talks advising farmers on problems of tough and damp grain. Tape recordings were broadcast over eleven stations in Western Canada to inform farmers on harvesting and storing damp grain.

Storage of Foreign Grain for Reshipment from Canada

Under authority of subsection (29) of section 15 of the Canada Grain Act and Board's Regulation No. 24, the Board continued to restrict entry of foreign grain into Canada for re-export to give priority to the storage of Canadian grain. During the 1954 calendar year in conjunction with the Transport Controller, sixty-seven permits were issued to move 5,891,000 bushels of United States flaxseed, and 10,582,000 bushels of United States corn through eastern elevators.

Stocks of foreign grain at Vancouver carried over into 1954 comprising 150,000 bushels of wheat and barley, were shipped out and no further foreign grain was received at the West Coast during 1954.

Lake Freight Rates

No changes were made during 1954 in the maximum rates for carrying grain by lake and river navigation. The maximum rates authorized by the Board's Order No. 19 of February 5, 1951, under authority of the Inland Water Freight Rates Act remained in effect during 1954. A schedule of these rates has been republished as Order No. 20 dated September 28, 1954, which appears in the *Canada Gazette* of October 27, 1954, as SOR/54-468. Information on the 1954 average lake freight rates charged by carriers is given in Table H-10 of Appendix H.

Transport Controller

Commissioner R. W. Milner continued to serve as Transport Controller on a part-time basis. During 1954 he handled most of the transport control work from Winnipeg and spent only a few intermittent weeks in Ottawa.

Canadian Government Elevators

Receipts of grain during 1953-54 at the Canadian Government Terminal Elevators operated by the Board at Moose Jaw, Saskatoon, Edmonton, Calgary, Lethbridge and Prince Rupert, totalled only 13.9 million bushels as compared

with 27.5 million for the previous crop year. From an operating standpoint, however, the 1953-54 crop year was very satisfactory as stocks in store at July 31, 1954, were 15.7 million bushels or 86 per cent of elevator capacity. The stocks in store at the beginning of the crop year were 14.5 million bushels.

Canadian Government Elevators showed a surplus of revenue over operating expenses in the amount of \$779,074 for the fiscal year ended March 31, 1954, as compared with a surplus of \$443,672 in the previous fiscal year. More detailed information respecting handlings and the operation of the Canadian Government Elevators is given in Appendix J to this report.

Organization and Personnel

On December 31, 1954, the Board's staff numbered 897 which was 42 less than on December 31, 1953. Of this total 838 were in the continuing establishment and 59 were casual employees whose numbers vary with work requirements.

The staff of the Canadian Government Elevators at Winnipeg, Saskatoon, Moose Jaw, Calgary, Edmonton, Lethbridge and Prince Rupert totalled 198, of which 39 were casual employees. This is a decrease of 21 from 1953.

Progress has been made during the year on the program initiated in 1953 for revising the organization of the Board's branches. Certain employees have been regrouped with the object of improving co-ordination of the work of the different branches. Use of business machines was extended to facilitate improved procedures.

The following table shows location of the Board's staff broken down by groups:

Point	Ad- minis- trative and Cler- ical	Insp- ectors and Assist- ants	Sam- plers	Weigh- men and Assist- ants	Track- men	At December 31, 1954		At December 31, 1953	
						Total	Casuals†	Total	Casuals†
Montreal.....	8	9	4	1	—	22	—	23	—
Chatham.....	2	3	8	—	—	13	4	10	2
Toronto.....	—	1	1	—	—	2	—	3	1
Fort William.....	30	99	71	87	53	340	5	364	61
Keewatin.....	—	—	2	2	—	4	—	4	—
Winnipeg.....	{ 106 29* }	35	105	10	—	285	10	297	25
Saskatoon.....	2	4	5	4	2	17	1	18	1
Moose Jaw.....	—	4	5	3	1	13	—	14	2
Medicine Hat.....	—	2	1	3	—	6	—	6	—
Lethbridge.....	—	1	2	1	1	5	1	5	2
Edmonton.....	6	8	24	3	1	42	10	41	9
Calgary.....	7	6	19	6	5	43	5	41	4
Vancouver.....	16	22	14	29	15	96	19	103	27
Prince Rupert.....	—	1	2	—	2	5	4	5	4
Victoria.....	—	2	—	2	—	4	—	5	1
Totals.....	{ 177 29* }	197	263	151	80	897	59	939	139

† Casuals included in totals.

* Chemists and Technicians.

Expenditure and Revenue

Total expenditure and revenue of the Board, exclusive of the Canadian Government Elevators, for the fiscal year 1953-54 compared with 1952-53 were as follows:

	1953-54	1952-53
Revenue.....	\$3,318,179	\$3,718,088
Expenditure.....	3,506,094	3,367,341
	<u>*187,915</u>	<u>†350,747</u>

* Deficit. † Surplus.

Expenditure for the nine months of the 1954-55 fiscal year to December 31, 1954, totalled \$2,667,821 as against \$2,618,472 for a comparable period during 1953-54. Cash revenue for the same 9-month period amounted to \$1,900,569 as compared with \$2,581,068 for this period of the previous year.

Respectfully submitted,

D. G. McKENZIE,
Chief Commissioner

J. VALLANCE,
Commissioner

R. W. MILNER,
Commissioner

K. HLYNKA,
Secretary

Table A-3.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC TERMINAL Elevators, Crop Year 1953-54

Date of Weighover	Licensee	EXCESS					DEFICIENCY				
		1	2	3	1 C.W.	2 C.W.	1	2	3	1 C.W.	2 C.W.
		Hard	Northern	Northern	Garnet	Garnet	Hard	Northern	Northern	Garnet	Garnet
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
FORT WILLIAM-PORT ARTHUR											
July 13-16, 1954.....	Canadian Consolidated Grain Co. Ltd.	—	—	25,144.8	—	—	—	32,776.9	—	—	—
Dec. 9-14, 1953.....	"Empire", "Thunder Bay"	—	—	—	—	—	—	2,539.3	19,783.7	—	—
Dec. 7-11, 1953.....	Eastern Terminal Elevator Co. Ltd.	—	—	—	—	—	—	6,823.0	29,938.0	—	2,515.3
June 21-24, 1954.....	Fort William Elevator Co. Ltd.— Elevator "F"	—	—	—	—	—	—	3,006.5	10,956.1	—	8.9
Dec. 1-4, 1953.....	Lakehead Terminals Limited.	—	—	—	—	—	—	4,254.0	1,797.6	—	—
Nov. 18-24, 1953.....	Manitoba Pool Elevators—	—	—	—	—	—	—	7,048.4	2,544.6	—	—
Nov. 16-18, 1953.....	Elevator No. 1.....	—	—	—	—	—	—	4,881.6	1,204.7	—	—
Dec. 11-16, 1953.....	Elevator No. 2.....	—	—	—	—	—	—	707.1	7,982.1	—	—
Dec. 16-23, 1953.....	Elevator No. 3.....	—	—	—	—	—	—	37,445.6	24,772.6	—	169.2
Jan. 14-20, 1954.....	Elevator No. 9.....	—	—	—	—	—	—	12,726.7	5,829.8	—	—
Dec. 14-17, 1953.....	McCabe Grain Co. Ltd.	—	—	—	—	—	—	17,203.4	1,820.9	—	—
Dec. 14-22, 1953.....	National Grain Co. Ltd.	—	878.1	—	1,305.1	—	—	10,941.5	6,212.7	—	—
Dec. 1-8, 1953.....	Ogilvie Flour Mills Co. Ltd.	—	91.4	—	—	—	—	8,844.9	231.9	—	—
Aug. 17-24, 1953.....	N. M. Paterson & Sons Ltd.	—	—	2,382.4	—	—	—	17,693.2	—	—	—
Aug. 24-28, 1953.....	Saskatchewan Wheat Pool—	—	—	—	—	—	—	8,235.3	3,574.3	—	—
Dec. 28/53—Jan. 13/54.....	Elevator No. 5.....	—	—	—	—	—	—	51,041.5	28,969.0	—	95.1
Dec. 7-18, 1953.....	Elevator No. 7.....	—	—	—	—	—	—	62,513.0	37,794.2	—	—
Dec. 7-18, 1953.....	Searle Grain Co. Ltd.	—	—	—	1,487.0	8.9	—	20,686.9	34,963.8	20.9	1,872.2
July 5-10, 1954.....	United Grain Growers Ltd.	—	—	—	—	—	—	25,772.3	—	—	—
VANCOUVER-NEW WESTMINSTER											
July 5-13, 1954.....	Alberta Wheat Pool.....	—	—	—	—	—	—	23,231.7	26,038.5	—	—
Apr. 23-May 3, 1954.....	Kerr Gifford & Co. Inc. (N.H.B. No. 1).....	—	—	—	—	—	—	2,621.0	3,246.4	—	121.2
Feb. 15-19, 1954.....	Midland Pacific Terminal Ltd.	—	216.6	—	—	—	—	9,822.7	5,347.9	—	—
June 15-22, 1954.....	Pacific Elevators Limited.....	—	—	—	—	—	—	42,129.5	73,062.6	—	43.4
March 29-April 2, 1954.....	James Richardson & Sons Ltd. (N.H.B. No. 4).....	—	—	—	—	—	—	2,857.8	1,288.8	—	—

Table A-4.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in PRIVATE TERMINAL Elevators, Crop Year 1953-54.

Date of Weighover	Licensee	Grade of Wheat	Excess	Deficiency
Aug. 6, 1953.....	Canada Malting Co. Ltd. No. 1, Calgary.	1 Hard..... 1 Northern..... 2 Northern..... 3 Northern..... 1 C.W. Garnet..... 2 C.W. Garnet.....	— — — — — —	— — — 15.0 — —
July 30, 1954.....	Canada Malting Co. Ltd. No. 3, Calgary.	No wheat of the above grades was handled or in store in these elevators.		
Sept. 17, 1953.....	Canada Malting Co. Ltd. Port Arthur.			

Table A-5.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in EASTERN ELEVATORS, Crop Year 1953-54

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1954			bu.	bu.
March 6-16	COLLINGWOOD— Collingwood Terminals Limited.	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Screenings..... Origin Unknown Screenings..... U.S.A. Soybeans.....	— — — — — — —	6,509.6 1,980.1 219.6 33.6 *1,030 *170 156.2
March 11- April 2	GODERICH Goderich Elevator & Transit Co. Ltd.	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Corn.....	— — — — — — — —	5,027.6 7,093.3 2,645.3 7.6 59.9 *29,958 *38,680 49.9
Feb. 9-26	HUMBERSTONE Robin Hood Flour Mills Limited.	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye.....	— — — —	5,640.1 526.1 1,568.2 47.4
March 25- April 6	KINGSTON Canada Steamship Lines Limited.	Canada Western Wheat..... Canada Western Oats..... Canada Western Corn..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Buckwheat..... Canada Western Sample Grain..... U.S.A. Corn.....	— — — — — — — —	10,484.5 559.3 6,028.3 366.4 1,867.6 83.7 *1,160 166.9
August 8-27 1953	MIDLAND Canada Steamship Lines Limited.	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley.....	— — —	5,953.2 67.4 653.1
March 8- April 2	Midland Simcoe Elevator Co. Ltd.	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley.....	— — —	4,556.7 2,379.5 162.6
March 17-26	Renown Investments Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley.....	— — —	3,825.4 468.6 59.5

Table A-5.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in EASTERN ELEVATORS, Crop Year 1953-54—(Continued)

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1954			bu.	bu.
Feb. 3- March 4	OWEN SOUND Great Lakes Elevator Co. Limited	Canada Western Wheat.....	—	11,736.3
		Canada Western Oats.....	—	5,418.0
		Canada Western Barley.....	—	1,471.0
		Canada Western Sample Grain.....	—	*68,620
Feb. 1-8	PORT COLBORNE Maple Leaf Milling Co. Limited	Canada Western Wheat.....	—	9,368.2
		Canada Western Oats.....	—	633.3
		Canada Western Barley.....	—	923.7
		Canada Western Rye.....	—	95.3
April 5-14	National Harbours Board.....	Canada Western Wheat.....	—	15,623.4
		Canada Western Oats.....	—	1,263.3
		Canada Western Barley.....	—	22,103.4
		Canada Western Rye.....	—	429.5
		Canada Western Flaxseed.....	—	237.9
		U.S.A. Corn.....	—	494.5
Feb. 1-23	PRESCOTT National Harbours Board	Canada Western Wheat.....	—	2,879.2
		Canada Western Oats.....	—	1,451.5
		Canada Western Barley.....	—	3,724.4
		Canada Western Rye.....	—	381.6
		Canada Western Sample Grain.....	—	*50
		U.S.A. Corn.....	—	3,780.7
March 15-26	TORONTO Toronto Elevators Ltd.....	Canada Western Wheat.....	—	1,616.6
		Canada Western Oats.....	—	3,960.4
		Canada Western Barley.....	—	1,855.2
		Canada Western Rye.....	—	133.8
		Canada Western Flaxseed.....	—	116.9
		Canada Western Mixed Grain.....	—	*1,850
		Canada Western Sample Grain.....	—	*3,850
		Canada Western Screenings.....	—	*13,830
		U.S.A. Corn.....	—	113.9
		U.S.A. Soybeans.....	—	222.0
March 1-9	WALKERVILLE Hiram Walker & Sons Grain Corp. Ltd.	Canada Western Wheat.....	—	1,080.1
		Canada Western Oats.....	—	366.1
		Canada Western Barley.....	64.5	—
		Canada Western Rye.....	622.7	—
		Origin Unknown Screenings.....	—	*51,050
		U.S.A. Corn.....	—	775.5
		U.S.A. Screenings.....	—	*10
Feb. 19- March 24	MONTREAL National Harbours Board.....	Canada Western Wheat.....	—	34,248.7
		Canada Western Oats.....	—	577.7
		Canada Western Barley.....	—	37,510.8
		Canada Western Rye.....	—	3,508.0
		Canada Western Flaxseed.....	—	1,471.8
		Canada Western Buckwheat.....	361.9	—
		Canada Western Peas.....	—	84.0
		Canada Western Mixed Grain.....	*37,160	—
		Canada Western Sample Grain.....	—	*91,120
		Canada Western Screenings.....	—	*21,000
		U.S.A. Corn.....	—	2,785.7
Feb. 1-18	QUEBEC National Harbours Board	Canada Western Wheat.....	—	15,093.5
		Canada Western Oats.....	—	1,925.2
		Canada Western Barley.....	—	1,573.3
		Canada Western Flaxseed.....	—	25.5
		Canada Western Sample Grain.....	*70	—
		Canada Western Screenings.....	—	*5,930
		U.S.A. Corn.....	—	67.0

Table A-5.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in EASTERN ELEVATORS, Crop Year 1953-54—(Concluded)

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1954			bu.	bu.
June 28- July 9	HALIFAX National Harbours Board.....	Canada Western Wheat.....	—	10,641.7
		Canada Western Oats.....	—	27.5
		Canada Western Barley.....	—	828.3
		Canada Western Flaxseed.....	—	96.6
April 15	ST. JOHN Canadian National Railways Co.	Canada Western Wheat.....	—	57.1
April 5-8	W. ST. JOHN Canadian Pacific Railway Co. Elevator "B"	Canada Western Wheat.....	—	844.1
		Canada Western Barley.....	—	202.8
		Canada Western Peas.....	—	21.6
April 8-14	Canadian Pacific Railway Co. Elevator "H"	Canada Western Wheat.....	—	2,825.4
		Canada Western Oats.....	—	14.6
		Canada Western Barley.....	—	883.7
		Canada Western Flaxseed.....	—	730.6
		Canada Western Buckwheat.....	—	53.1

* Lb.

APPENDIX B

Committee on Western Grain Standards, 1954

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners
 J. Vallance, Commissioner, Board of Grain Commissioners
 R. W. Milner, Commissioner, Board of Grain Commissioners
 A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
 Dr. J. A. Anderson, Chief Chemist, Grain Research Laboratory
 J. Forsyth, Chairman, Grain Appeal Tribunal, Winnipeg
 P. J. Marples, Chairman, Grain Appeal Tribunal, Calgary
 C. R. Manahan, Chairman, Grain Appeal Tribunal, Edmonton
 Dr. C. H. Goulden, Dominion Cerealists
 W. A. Hastings, representing the millers of wheat flour

George Bennett.....

W. H. Fairfield.....

Uri Powell.....

B. S. Plumer.....

J. H. Harrison.....

A. P. Gleave.....

J. Wellbelove.....

L. L. Gray.....

N. W. Strelloff.....

W. J. Parker.....

R. Barrett.....

Ray Mitchell.....

} Representing grain growers in Alberta

} Representing grain growers in Saskatchewan

} Representing grain growers in Manitoba

G. Constable, representing grain growers in British Columbia

J. E. Blakeman, representing Plant Products Division, Department of Agriculture

Committee on Eastern Grain Standards, 1954

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners
 J. Vallance, Commissioner, Board of Grain Commissioners
 R. W. Milner, Commissioner, Board of Grain Commissioners
 A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
 R. H. Read, representing Montreal Board of Trade
 E. D. Sullivan, representing Toronto Board of Trade
 C. Gordon McAuley, representing exporters of grain

F. H. Dunsford.....

H. Norman Davis....

Hugh Bailey.....

J. E. Nephew.....

} Representing millers of wheat in the Eastern Division

} Representing grain growers in Ontario

G. C. Nichols, representing growers of corn

E. B. Paterson, Additional

John W. Ham, Additional

APPENDIX C

Grain Appeal Tribunals

<i>Winnipeg</i>	<i>Calgary</i>	<i>Edmonton</i>
J. Forsyth (Chairman)	P. J. Marples (Chairman)	C. R. Manahan (Chairman)
Grant Hammond	T. F. Allison	C. C. Young
Wm. E. McLeod	J. Tranter	M. G. Wood
A. F. Moore	W. M. Pringle	J. R. MacRae
James Gregory	W. G. McLeod	T. Stickney
R. C. Sproule	E. J. Munson	D. G. MacKeracher
J. F. Lazenby	G. C. Arbuthnott	H. A. Haggarty
D. K. Mills	A. Watson	C. E. Sage
G. I. Rocan	G. R. Deeton	Ross Saunders
E. Attree (Secretary)		D. F. Marlett (Secretary)
<i>Toronto</i>	<i>Montreal</i>	
John W. Ham	P. J. Smith (Chairman)	
C. H. Coatsworth	A. W. Brown	
R. C. Pratt	T. B. Earle	
C. W. Heimbecker	J. A. Byrne	
W. A. Robertson	J. M. Vittie	
E. D. Sullivan	G. D. Robinson	
K. F. Wadsworth	Mrs. Muriel B. Hunter	
J. C. Noseworthy (Secretary)	(Secretary)	

For information on Appeals of Carlot Inspections refer to Appendix F, Table F-7.

APPENDIX D

Licence and Bonding Branch

C. F. SPITTLE, *Licensing Officer*

During 1953-54 the Licence and Bonding Branch issued 5,562 licences to 120 firms and individuals to operate under the Canada Grain Act, or 36 more than in the previous crop year. In addition, country elevator licensees were authorized to use 145 supplementary storage annexes, comprising flour sheds, coal sheds, skating rinks and other buildings of substantial construction suited to emergency grain storage.

On July 31, 1954, with 5,474 elevator licences in force and 139 buildings authorized for supplementary storage, the total licensed storage capacity was 569,212,170 bushels in elevators, and 4,763,638 bushels in supplementary storage annexes to country elevators. In addition, 56 Track Buyers', Commission Merchants' and Grain Dealers' licences were also in force. The following table gives a comparative statement of numbers and classes of licences in force and storage capacity:

Kind of Licence	Licences in force July 31		Licensed storage capacity July 31	
	1954	1953	1954	1953
Country Elevators.....	5,359	5,340	326,698,550	311,818,950
Supplementary Annexes to Country Elevators.....	*	*	4,763,638	3,288,910
Terminals and Mill Elevators.....	86	87	153,583,820	151,036,410
Eastern Elevators.....	29	29	88,929,800	84,929,800
Track Buyers, Commission Merchants and Grain Dealers.....	56	57	†	†
Totals.....	5,530	5,513	573,975,808	551,074,070

* 139 buildings at July 31, 1954, and 75 buildings at July 31, 1953.

† These licences do not cover grain storage facilities.

During the crop year fourteen licences were cancelled for elevators which were converted to permanent annexes, and seven were cancelled for five elevators burnt down and two elevators demolished. Four other elevator licences and supplementary storage authorities and one grain dealer's licence were also cancelled for miscellaneous reasons.

Seventy-two country elevator licences were suspended by the Board for varying periods during rehabilitation and reconstruction of buildings. Sixty-four of these were subsequently reinstated after the structures had been satisfactorily repaired or reconstructed, and eight were under suspension at July 31, 1954.

Guarantee bonds in the amount of \$29,613,136.50 executed by sixteen approved surety companies were deposited with the Board as security under section 79 of the Canada Grain Act to cover operations of licensees during 1953-54. Five licensees deposited negotiable Government bonds with a par value of \$41,000 in lieu of furnishing the usual form of surety bonds.

At December 1, 1954, at which date essentially all licences were issued for the 1954-55 crop year, there were 5,474 licences in force. In addition, 147 buildings other than elevators were authorized for supplementary storage. The total licensed storage capacity as at December 1, 1954, was 575,598,860 bushels in elevators and 5,369,950 bushels in supplementary annexes, or a total increase of 19,463,602 bushels since December 1, 1953. Further details of number and kind of licences and storage capacity for the last five years (1950-1954) are given in Table D-1 of this Appendix. Comparative figures given at five-year intervals since 1890 are presented on page 18 of the Board's Annual Report for 1951.

Additional information on licensees, elevators, licensed storage capacities and other data on loading platforms, track buyers', commission merchants' and grain dealers licences, etc., is contained in a book entitled *Grain Elevators in Canada** compiled by the Board and published by the Queen's Printer.

* See list of publications in Appendix M.

Collection of One Per Cent Levy

The collection during the crop year 1953-54 of the one per cent levy made by this office under provisions of the Prairie Farm Assistance Act is recorded at \$7,987,031.77, a decrease of \$2,887,280.22 from collections during the previous crop year. Detailed information is recorded in Table D-2 of this Appendix.

Table D-1.—Number and Kind of Licences Issued and Licensed Storage Capacity, as at December 1st Each Year for the Past Five Years

Kind of Licence	1954	1953	1952	1951	1950
NUMBER OF LICENCES					
Public Country Elevator.....	5,352	5,326	5,341	5,354	5,309
Private Country Elevator.....	10	10	10	10	9
Mill Elevator.....	36	40	38	38	37
Public Terminal Elevator.....	6	6	6	6	6
Semi-Public Terminal Elevator.....	34	35	36	35	34
Private Terminal Elevator.....	7	6	7	7	8
Eastern Elevator.....	29	29	29	29	29
Track Buyer.....	21	21	21	22	25
Commission Merchant.....	25	26	27	28	32
Grain Dealer.....	8	9	9	11	12
Totals.....	5,528	5,508	5,524	5,540	5,501
LICENSED CAPACITY					
thousands of bushels					
Public Country Elevator.....	332,454	318,224	306,484	290,504	278,416
Special Annexes.....	5,369	4,411	1,579	627	—
Private Country Elevator.....	349	349	350	354	323
Mill Elevator.....	13,429	13,495	13,426	13,306	13,306
Public Terminal Elevator.....	18,350	18,350	18,350	18,350	18,350
Semi-Public Terminal Elevator.....	112,873	114,523	108,455	114,524	105,991
Private Terminal Elevator.....	7,295	7,220	7,295	7,295	7,330
Eastern Elevator.....	90,845	84,929	84,930	82,530	82,514
Totals.....	580,964	561,501	540,869	527,490	506,230

Table D-2.—Amounts Collected and Grain Purchased under the One Per Cent Levy, Prairie Farm Assistance Act, for period August 1, 1953 to July 31, 1954

Province	Wheat	Oats	Barley	Rye	Total
AMOUNTS COLLECTED					
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Manitoba.....	546,061 69	115,386 54	298,888 12	12,921 68	973,258 03
Saskatchewan.....	4,204,069 83	295,862 80	386,108 26	58,411 27	4,944,452 16
Alberta.....	1,545,368 64	172,701 94	324,686 84	26,406 06	2,069,163 48
Totals.....	6,295,500 16	583,951 28	1,009,683 22	97,739 01	7,986,873 67
Amount not allocated to provinces.....					158 10
Total collections August 1, 1953 to July 31, 1954.....					7,987,031 77
GRAIN PURCHASES					
	thousands of bushels				
Manitoba.....	36,242	17,886	30,570	1,622	86,320
Saskatchewan.....	283,150	49,513	41,104	7,484	381,251
Alberta.....	107,072	28,813	35,058	3,604	174,547
Totals.....	426,464	96,212	106,732	12,710	642,118

APPENDIX E

Registration Branch

C. J. BROWNSCOMBE, *Registrar*

Section 127 of the Canada Grain Act requires operators or managers of Public and Semi-Public terminal and eastern elevators to issue warehouse receipts for all grain taken into store. These warehouse receipts must be registered by the Board as to grades and quantities in accordance with Regulations 1 and 2 made under authority of the Act.

Table E-1 of this appendix presents the total quantities of grain received and shipped during the 1953-54 crop year at 41 Public and Semi-Public terminal elevators and 29 eastern elevators. Warehouse receipts were registered for grain taken into store and registered for cancellation when grain was shipped. In addition, "splits", consolidations and reissues of warehouse receipts were carried out daily to facilitate documentation in connection with the sale and handling of grain. Average figures for quantities registered and cancelled during the previous ten-crop-year period have been included in this table for comparison purposes.

While total handlings of all grains at elevators included in the Winnipeg registrations and at elevators in the interior group, were somewhat less than the figures for the ten-year average, a considerable increase in handlings of the Vancouver group of elevators set an all-time record for that area. Registrations of warehouse receipts for handlings in the Eastern Division reflect a general reduced movement of grain during 1953-54.

This Branch continues to maintain records of outstanding warehouse receipts that have been issued to cover stocks of grain contained in public, semi-public and eastern elevators and keeps records of grade handlings for each elevator. Statements of outstanding warehouse receipt totals by grade for all grain, also handling figures for the non-mixing grades of wheat, are issued for use in connection with the annual weighover of stocks of grain contained in both terminal and eastern elevators.

Charges for registration service are made at the rate of 4 cents per thousand bushels in the Western Division and 1 cent per thousand bushels in the Eastern Division. The reduced volume of handlings during the crop year under review has resulted in a decrease of fees collected in both Divisions. The amount was \$48,373.80 as compared to \$67,293.63 for the previous crop year. However, this is still above the ten-year average of \$44,751.22.

Table E-1.—Warehouse Receipt Registrations for Receipts and Shipments at Public and Semi-Public Terminal Elevators and Eastern Elevators, by Area and Grain, Crop Year 1953-54 and 10-year Average

Area	Grain	Crop Year 1953-54		10-Year Average, 1943-44 to 1952-53	
		Registered	Registered for Cancellation	Registered	Registered for Cancellation
—thousands of bushels—					
WESTERN DIVISION— Winnipeg, including Lakehead and Churchill	Wheat.....	173,829	150,774	228,733	231,768
	Oats.....	93,123	98,528	74,136	77,036
	Barley.....	84,251	84,575	56,894	56,928
	Flax.....	7,301	7,285	6,727	6,747
	Rye.....	11,245	16,223	8,875	8,623
	Mixed Grain.....	596	572	1,154	681
	Corn.....	9	9	60	69
	Other Grains.....	316	315	18	17
INTERIOR ELEVATORS— Calgary, Edmonton, Lethbridge, Moose Jaw and Saskatoon	Wheat.....	3,629	2,464	4,993	4,813
	Oats.....	225	300	759	761
	Barley.....	1,378	1,407	1,518	1,506
	Flax.....	196	196	362	348
	Rye.....	91	91	20	20
	Mixed Grain.....	2	1	11	24
	Corn.....	9	10	15	11
	Other Grains.....	110	111	211	192
VANCOUVER AND PRINCE RUPERT AREA	Wheat.....	114,547	114,903	59,923	60,978
	Oats.....	2,685	4,169	2,598	3,397
	Barley.....	17,917	17,840	3,947	3,885
	Flax.....	618	619	47	54
	Rye.....	45	47	34	34
	Mixed Grain.....	103	242	44	33
	Corn.....	—	—	287	286
	Other Grains.....	—	—	6	5
WESTERN DIVISION— All Points.....	Wheat.....	292,005	268,141	293,649	297,559
	Oats.....	96,033	102,997	77,493	81,194
	Barley.....	103,546	103,822	62,359	62,319
	Flax.....	8,115	8,100	7,136	7,149
	Rye.....	11,381	16,361	8,929	8,677
	Mixed Grain.....	701	815	1,209	738
	Corn.....	18	19	362	366
	Other Grains.....	426	426	235	214
Totals—All Grains.....		512,225	500,681	451,372	458,216
EASTERN DIVISION.....	Wheat.....	230,170	211,958	297,318	296,869
	Oats.....	41,659	42,955	44,292	44,045
	Barley.....	84,891	86,899	49,565	49,176
	Flax.....	16,553	15,930	6,488	6,485
	Rye.....	1,324	1,957	6,063	5,900
	Mixed Grain.....	651	647	398	376
	Sunflower Seed.....	—	—	11	11
	Corn.....	20,125	20,641	12,408	12,482
	Screenings.....	1,181	1,371	1,001	996
	Peas.....	210	208	17	24
	Beans.....	2,454	2,584	1,109	1,097
	Buckwheat.....	672	750	134	125
	Other Grains.....	—	—	175	182
	Totals—All Grains.....		399,890	385,900	418,979	417,768

APPENDIX F

Inspection Branch

A. F. DOLLERY, *Chief Grain Inspector*

Under section 32 of the Canada Grain Act, the Grain Inspection Branch in the Western Division samples and grades all grain en route from country points to terminal and mill elevators or other destinations, at the primary inspection points of Winnipeg, Edmonton and Calgary. All grain is also sampled and graded on delivery to terminal or mill elevators at Saskatoon, Moose Jaw, Medicine Hat and Lethbridge if such grain has not passed through an inspection point. In addition, inspectors resample and check primary grading of all grain unloaded into terminal and mill elevators at the Lakehead, Churchill, Pacific Coast and interior points, as well as sampling and grading all grain shipped from terminal or mill elevators.

In the Eastern Division, sampling and grading service is provided on request at Chatham and Toronto for eastern grown grain. At Montreal, Quebec, Sorel, Three Rivers, St. John and Halifax, grain loaded into vessels for export is sampled and the grades are checked. Grades of all grain in store in all terminal and eastern elevators weighed over during that crop year are verified by Inspection Branch officials.

In the crop year ended July 31, 1954, inspections at primary points, while 25 per cent less than in the previous crop year, were still slightly higher than the yearly average for the past ten years. Storage congestion at the Lakehead and at transfer points in the Eastern Division was the cause of the reduced volume of inspections.

Seventy-seven per cent of the carlots of wheat inspected fell into No. 1, 2 or 3 Northern with No. 2 Northern at 47 per cent being the predominant grade; nine per cent of wheat graded tough and damp. Of the Durum wheat inspected, over 83 per cent graded 3 C.W. Amber Durum. Almost one-half of all the carlots of oats inspected graded No. 1 Feed with 21 per cent grading No. 3 C. W., 17 per cent grading Extra No. 1 Feed, and 2 per cent was tough and damp. The predominant grade in barley was No. 3 C.W. Six Row with 33 per cent of all carlots entering this grade, 24 per cent graded No. 1 Feed, 18 per cent No. 2 Feed, and 10 per cent graded tough and damp. Over one-half of all rye graded No. 3 C.W., with 21 per cent grading No. 2 C.W., and 10 per cent falling into the tough and damp grades. Flax graded high with almost 85 per cent going into No. 1 Canada Western.

Grain inspected on loading to vessels from terminal elevators at the Lakehead, Pacific Coast and Churchill, totalled 476 million bushels as compared with 596 million in the previous crop year. On export cargoes shipped from St. Lawrence and Atlantic ports grades were checked on grain amounting to 210 million bushels as compared with 372 million in the previous crop year.

In the Eastern Division well over 13,000 carlots of eastern grown grain were sampled and inspected; mostly at Chatham.

Rust damage in the southern portion of Manitoba and south-eastern Saskatchewan, lowered the grades of wheat and barley harvested in these areas in 1953. As a result, over 300 carlots of wheat graded into No. 4, 5 and 6 special grades on account of low bushel weight; and barley graded down to 3 C.W. and No. 1 Feed on account of thin, rusted and immature kernels. Grain from the central areas of Manitoba and Saskatchewan graded above average, while Alberta grown grain was of average grade, except for lower grades in the west central portion of the province resulting from hail damage. The northern areas of the three provinces produced some low-grade, immature and frosted wheat.

The following tables present detail information on grain inspections during the 1953-54 crop year.

Table F-1.—Primary Carlot Inspections, by Grains, from August 1, 1953 to July 31, 1954, compared with 1952-53 and 10-Year Average 1943-44 to 1952-53

	10-Year Average	1952-53	1953-54	10-Year Average	1952-53	1953-54
	Carlots			Percent of total		
Wheat.....	203,502	275,771	194,747	68.6	68.5	63.9
Oats.....	41,320	40,649	41,319	13.9	10.1	13.6
Barley.....	39,895	70,850	55,027	13.5	17.6	18.0
Rye.....	5,202	8,221	6,394	1.8	2.0	2.1
Flaxseed.....	5,438	5,148	5,108	1.8	1.3	1.7
Mixed Grain.....	576	1,125	811	0.2	0.3	0.3
Corn.....	93	107	344	*	*	0.1
Buckwheat.....	16	93	174	*	*	*
Screenings.....	456	381	375	0.2	*	0.1
Sunflower Seed.....	23	3	1	*	*	*
Rapeseed.....	2	15	151	*	*	*
Peas.....	58	39	148	*	*	*
Soybeans.....	1	5	—	*	*	*
Totals.....	296,582	402,407	304,599	100.0	100.0	100.0

* Less than 0.05 %.

Table F-2.—Primary Carlot Inspections, by Points, from August 1, 1953 to July 31, 1954, compared with 1952-53 and 10-Year Average 1943-44 to 1952-53

	10-Year Average	1952-53	1953-54	10-Year Average	1952-53	1953-54
	Carlots			Percent of total		
Winnipeg.....	223,425	292,997	197,787	75.3	72.8	65.0
Calgary.....	27,924	43,375	47,162	9.4	10.8	15.5
Edmonton.....	26,101	43,892	36,729	8.8	10.9	12.1
Moose Jaw.....	4,968	5,394	4,239	1.7	1.3	1.4
Saskatoon.....	6,330	7,297	8,615	2.1	1.8	2.8
Lethbridge.....	585	92	16	0.2	*	*
Medicine Hat.....	3,794	3,536	2,548	1.3	0.9	0.8
Vancouver.....	1,015	861	961	0.4	0.2	0.3
Churchill.....	†2,440	4,963	6,542	0.8	1.2	2.1
Totals.....	296,582	402,427	304,599	100.0	100.0	100.0

* Less than 0.05%.

† Cars inspected during last seven years only.

Table F-3.—Primary Carlot Inspections from August 1, 1953 to July 31, 1954, by Grain and Grades

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT			
1 Manitoba Northern.....	15,637	8.3	—
2 Manitoba Northern.....	89,434	47.5	—
3 Manitoba Northern.....	39,822	21.2	—
4 Manitoba Northern.....	9,668	5.1	—
No. 4 Special.....	258	0.1	—
No. 5.....	9,358	5.0	—
No. 5 Special.....	63	*	—
No. 6.....	4,081	2.2	—
No. 6 Special.....	12	*	—
Feed.....	338	0.2	—
Sample.....	167	0.1	—
Smutty.....	233	0.1	—
Rejected.....	2,168	1.2	—
Tough.....	16,881	9.0	—
Damp.....	77	*	—
Others.....	25	*	—
Total Red Spring Wheat.....	188,222	100.0	96.7
1 Canada Western Garnet.....	1	0.1	—
2 Canada Western Garnet.....	129	8.5	—
3 Canada Western Garnet.....	755	49.5	—
Smutty Canada Western Garnet.....	1	0.1	—
Tough Canada Western Garnet.....	617	40.4	—
Damp Canada Western Garnet.....	2	0.1	—
Rejected Canada Western Garnet.....	20	1.3	—
Total Garnet Wheat.....	1,525	100.0	0.8
1 Canada Western Amber Durum.....	17	0.4	—
2 Canada Western Amber Durum.....	148	3.3	—
3 Canada Western Amber Durum.....	3,686	83.4	—
4 Canada Western Amber Durum.....	304	6.9	—
5 Canada Western Amber Durum.....	42	1.0	—
6 Canada Western Amber Durum.....	7	0.2	—
Smutty Canada Western Amber Durum.....	6	0.1	—
Rejected Canada Western Amber Durum.....	175	4.0	—
Tough Canada Western Amber Durum.....	23	0.5	—
Damp Canada Western Amber Durum.....	3	*	—
Sample Canada Western Amber Durum.....	9	0.2	—
Total Amber Durum Wheat.....	4,420	100.0	2.3
1 Canada Western Soft White Spring.....	23	10.5	—
2 Canada Western Soft White Spring.....	160	73.0	—
3 Canada Western Soft White Spring.....	26	11.9	—
Smutty Canada Western Soft White Spring.....	1	0.5	—
Rejected Canada Western Soft White Spring.....	1	0.5	—
Tough Canada Western Soft White Spring.....	4	1.8	—
Sample Canada Western Soft White Spring.....	4	1.8	—
Total Soft White Spring Wheat.....	219	100.0	0.1
1 Canada Western Mixed Wheat.....	2	1.3	—
2 Canada Western Mixed Wheat.....	3	1.9	—
3 Canada Western Mixed Wheat.....	33	21.1	—
4 Canada Western Mixed Wheat.....	7	4.5	—
5 Canada Western Mixed Wheat.....	85	54.5	—
6 Canada Western Mixed Wheat.....	2	1.3	—
Tough Canada Western Mixed Wheat.....	5	3.2	—
Rejected Canada Western Mixed Wheat.....	19	12.2	—
Total Mixed Wheat.....	156	100.0	—

**Table F-3.—Primary Carlot Inspections from August 1, 1953 to July 31, 1954
by Grain and Grades—continued**

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT—concluded			
1 Alberta Red Winter.....	39	19.0	—
2 Alberta Winter.....	107	52.2	—
3 Alberta Winter.....	19	9.3	—
4 Alberta Winter.....	2	1.0	—
Tough Alberta Winter.....	19	9.3	—
Damp Alberta Winter.....	2	1.0	—
Smutty Alberta Winter.....	9	4.3	—
Rejected Alberta Winter.....	8	3.9	—
Total Alberta Winter Wheat.....	205	100.0	0.1
Total All Wheats.....	194,747	—	100.0

Grade	Carlots	Percentage
OATS		
2 Canada Western.....	260	0.6
Extra 3 Canada Western.....	1,638	3.9
3 Canada Western.....	8,643	20.9
Extra 1 Feed.....	7,222	17.5
1 Feed.....	20,036	48.5
2 Feed.....	2,097	5.1
3 Feed.....	380	0.9
Mixed Feed Oats.....	27	0.1
Rejected Oats.....	119	0.3
Sample Oats.....	107	0.3
Tough.....	781	1.9
Damp.....	8	*
Mixed Feed Oats Groats.....	1	*
Total Oats.....	41,319	100.0

BARLEY

1 Canada Western Six Row.....	1	*
2 Canada Western Six Row.....	1,163	2.1
3 Canada Western Six Row.....	18,327	33.3
4 Canada Western Six Row.....	1,680	3.1
1 Canada Western Two Row.....	2	*
2 Canada Western Two Row.....	218	0.4
3 Canada Western Two Row.....	1,967	3.6
1 Feed.....	13,244	24.1
2 Feed.....	9,836	17.9
3 Feed.....	2,389	4.3
Rejected.....	178	0.3
Sample.....	87	0.2
Tough.....	5,855	10.6
Damp.....	56	0.1
Condemned.....	1	*
U.S.A. Barley.....	23	*
Total Barley.....	55,027	100.0

FLAXSEED

1 Canada Western.....	4,328	84.7
2 Canada Western.....	553	10.8
3 Canada Western.....	115	2.3
4 Canada Western.....	6	0.1

Table F-3.—Primary Carlot Inspections from August 1, 1953 to July 31, 1954, by Grain and Grades
(Continued)

Grade	Carlots	Percentage
FLAXSEED—Concluded		
Sample.....	33	0.7
Tough.....	70	1.4
Damp.....	1	*
Flax and Broken Grain.....	2	*
Total Flaxseed.....	5,108	100.0
RYE		
1 Canada Western.....	11	0.2
2 Canada Western.....	1,376	21.5
3 Canada Western.....	3,666	57.4
4 Canada Western.....	231	3.6
Ergoty Rye.....	413	6.5
Rejected.....	26	0.4
Sample.....	9	0.1
Tough.....	655	10.2
Damp.....	2	*
Others.....	5	0.1
Total Rye.....	6,394	100.0
MIXED GRAIN		
1 Canada Western.....	113	13.9
2 Canada Western.....	59	7.3
3 Canada Western.....	321	39.6
4 Canada Western.....	85	10.5
Smutty.....	1	0.1
Rejected.....	28	3.4
Sample.....	97	12.0
Tough.....	101	12.5
Damp.....	6	0.7
Total Mixed Grain.....	811	100.0
CORN		
1 Canada Western Yellow.....	15	4.4
2 Canada Western Yellow.....	50	14.5
3 Canada Western Yellow.....	35	10.2
4 Canada Western Yellow.....	17	4.9
5 Canada Western Yellow.....	4	1.2
Tough.....	28	8.1
Damp.....	2	0.6
Moist.....	2	0.6
Wet.....	1	0.3
U.S.A. Origin.....	190	55.2
Total Corn.....	344	100.0
Screenings.....	375	—
Buckwheat.....	174	—
Sunflower Seed.....	1	—
Peas.....	148	—
Rapeseed.....	151	—
Grand Total.....	304,599	—

* Less than 0.05%.

Table F-4.—Carlots of Tough, Damp and Straight Grain Inspected at Primary Inspection Points
August 1, 1953 to July 31, 1954

Grain	Tough	Damp	Tough and Damp	Straight	Total
Carlots					
Wheat.....	17,549	84	17,633	177,114	194,747
Oats.....	781	8	789	40,530	41,319
Barley.....	5,855	56	5,911	49,116	55,027
Rye.....	655	2	657	5,737	6,394
Flaxseed.....	70	1	71	5,037	5,108
Others.....	129	8	137	1,867	2,004
All Grains.....	25,039	159	25,198	279,401	304,599
PERCENTAGE OF TOTAL					
	%	%	%	%	%
Wheat.....	9.0	*	9.0	91.0	100.0
Oats.....	1.9	*	1.9	98.1	100.0
Barley.....	10.6	0.1	10.7	89.3	100.0
Rye.....	10.3	*	10.3	89.7	100.0
Flaxseed.....	1.4	*	1.4	98.6	100.0
Others.....	6.4	0.4	6.8	93.2	100.0
All Grains.....	8.2	0.1	8.3	91.7	100.0

* Less than 0.05%.

Table F-5.—Number of Two Pound Samples “Subject to Grade and Dockage” Inspected during
Crop Year 1953-54 Compared with the Crop Year 1952-53

Point	1952-53	1953-54
Number of Samples		
Winnipeg.....	12,525	6,797
Calgary.....	1,078	997
Edmonton.....	506	813
Moose Jaw.....	415	110
Saskatoon.....	884	859
Lethbridge.....	656	506
Medicine Hat.....	18	13
Totals.....	16,082	10,095

Table F-6.—Carlots Re-inspected from August 1, 1953 to July 31, 1954

Point	Inspected	Re-inspected	Un-changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered
Number of Carlots							
Winnipeg.....	197,787	15,460	8,781	3,478	417	495	2,289
Calgary.....	47,162	4,722	1,222	1,855	63	222	1,360
Edmonton.....	36,729	7,745	2,762	2,137	66	269	2,511
Saskatoon.....	8,615	316	286	30	—	—	—
Moose Jaw.....	4,239	177	158	19	—	—	—
Medicine Hat.....	2,548	12	2	8	2	—	—
Lethbridge.....	16	—	—	—	—	—	—
Vancouver.....	961	350	256	89	5	—	—
Churchill.....	6,542	—	—	—	—	—	—
Totals.....	304,599	28,782	13,467	7,616	553	986	6,160
Percentage of Re-inspections							
		%	%	%	%	%	%
Winnipeg.....	—	100	56.8	22.5	2.7	3.2	14.8
Calgary.....	—	100	25.9	39.3	1.3	4.7	28.8
Edmonton.....	—	100	35.7	27.6	0.8	3.5	32.4
Saskatoon.....	—	100	90.5	9.5	—	—	—
Moose Jaw.....	—	100	89.3	10.7	—	—	—
Medicine Hat.....	—	100	16.7	66.6	16.7	—	—
Lethbridge.....	—	—	—	—	—	—	—
Vancouver.....	—	100	73.1	25.4	1.5	—	—
Churchill.....	—	—	—	—	—	—	—
Totals.....	—	100	46.8	26.5	1.9	3.4	21.4
Percentage of Total Inspections							
	%	%	%	%	%	%	%
Winnipeg.....	100	7.8	4.4	1.8	0.2	0.3	1.1
Calgary.....	100	10.0	2.6	3.9	0.1	0.5	2.9
Edmonton.....	100	21.0	7.5	5.8	0.2	0.7	6.8
Saskatoon.....	100	3.7	3.3	0.4	—	—	—
Moose Jaw.....	100	4.2	3.7	0.5	—	—	—
Medicine Hat.....	100	0.5	0.1	0.3	0.1	—	—
Lethbridge.....	100	—	—	—	—	—	—
Vancouver.....	100	36.4	26.6	9.3	0.5	—	—
Churchill.....	100	—	—	—	—	—	—
Totals.....	100	9.4	4.4	2.5	0.2	0.3	2.0

Table F-7.—Summary of Carlot Inspections Appealed during the Crop Year 1953-54

[illegible]

**Table F-8.—Quantities of the Various Grains Inspected and Shipped by Vessel
During the Crop Year 1953-54**

Grain	Fort William and Port Arthur	Vancouver	Victoria	Prince Rupert	Churchill	Total
	bu.	bu.	bu.	bu.	bu.	bu.
Wheat.....	135,910,272	105,213,633	3,154,600	5,211,175	10,871,912	260,361,592
Oats.....	87,540,587	2,488,290	32,941	—	—	90,061,818
Barley.....	82,716,323	14,193,610	170,170	2,863,467	—	99,943,570
Rye.....	15,836,423	26,000	—	—	—	15,862,423
Flaxseed.....	5,499,361	618,049	—	—	—	6,117,410
Buckwheat.....	230,831	—	—	—	—	230,831
*Mixed Grain.....	245,478	—	—	—	—	245,478
*Sample Grain.....	56,902	74,816	—	79,664	—	211,382
*Screenings.....	2,769,135	36,288	—	51,600	—	2,857,023
U.S.A. Barley.....	—	138,876	—	—	—	138,876
Totals.....	330,805,312	122,789,562	3,357,711	8,295,906	10,871,912	476,030,403

* In Bushels of 50 pounds.

**F-9.—Outward Cars Inspected—Crop Year August 1, 1953 to July 31, 1954, out of Public,
Semi-Public and Private Elevators**

Grain	Winnipeg	Fort William and Port Arthur	Calgary	Edmonton	Moose Jaw
Number of Carlots					
Wheat.....	866	2,104	742	262	471
Oats.....	1,672	5,488	40	112	134
Barley.....	507	2,858	810	33	25
Flaxseed.....	24	994	23	78	8
Rye.....	23	160	31	—	6
Mixed Grain.....	95	—	24	2	2
Corn.....	22	—	1	—	—
Buckwheat.....	3	49	—	—	—
Peas.....	75	—	1	—	—
Soybeans.....	1	—	—	—	—
Sunflower Seed.....	1	—	—	—	—
Screenings.....	383	3,290	177	28	69
Sample Grain.....	—	251	—	—	—
Totals.....	3,672	15,194	1,849	515	715
	Saskatoon	Lethbridge	Medicine Hat	Vancouver, Victoria and Prince Rupert	Churchill
Wheat.....	1,860	7	—	800	—
Oats.....	33	3	—	552	33
Barley.....	12	—	—	203	—
Flax.....	—	—	—	1	—
Rye.....	4	1	—	6	—
Mixed Grain.....	3	—	—	12	—
Corn.....	—	—	—	—	—
Buckwheat.....	—	—	—	—	—
Peas.....	—	—	—	—	—
Soybeans.....	—	—	—	—	—
Sunflower Seed.....	—	—	—	—	—
Screenings.....	373	1	10	1,848	94
Totals.....	2,285	12	10	3,422	127

EASTERN DIVISION

Table F-10.—Total Carlot, Cargo and Bin Inspections, Crop Year 1953-54

	Eastern Grain	Eastern Grain Cargoes	Western Grain Cargoes	U.S. Grain Cargoes	Bin Inspection	
					Eastern Grain	Western Grain
	Carlots	bu.	bu.	bu.	bu.	bu.
Montreal.....	257	776,866	786,303	—	408,204	—
Toronto.....	1,181	627,596	122,540	—	—	—
Chatham.....	12,336	5,196,693	—	4,400	52,304	—
Totals.....	13,774	6,601,155	908,843	4,400	460,508	—

Table F-11.—Carlots, Cargoes and Bins Sampled but not Inspected (Fees Collected), Crop Year 1953-54

	Eastern Grain	Western Grain	U.S. Grain	Total
Carlots				
Montreal.....	93	94	2	189
Toronto.....	—	3	—	3
Chatham.....	15	364	—	379
Totals.....	108	461	2	571
Cargoes				
	bu.	bu.	bu.	bu.
Montreal.....	521,688·0	2,075,614·0	876,359·0	3,473,661·0
Toronto.....	—	—	—	—
Chatham.....	—	—	—	—
Totals.....	521,688·0	2,075,614·0	876,359·0	3,473,661·0
Bin Sampling				
Montreal.....	331,383·0	238,589·0	—	569,972·0
Toronto.....	—	—	—	—
Chatham.....	—	—	—	—
Totals.....	331,383·0	238,589·0	—	569,972·0

Table F-12.—Western, Eastern and Foreign Grain Sampled for Export, Export in Bags and Inward, by Points (Fees not Collected) Crop Year 1953-54

	Export	Export in Bags	Inward	Totals
	bu.	bu.	bu.	bu.
Western Grain.....	110,762,965.0	692,057.0	76,837,725.0	188,292,747.0
Eastern Grain.....	5,201,033.0	22,377.0	4,615,769.0	9,839,179.0
U.S. Grain.....	4,946,610.0	—	6,932,385.0	11,878,995.0
Totals.....	120,910,608.0	714,434.0	88,385,879.0	210,010,921.0
Montreal.....	93,573,780.0	707,952.0	88,385,879.0	182,667,611.0
Sorel.....	3,610,799.0	—	—	3,610,799.0
Three Rivers.....	3,542,424.0	4,000.0	—	3,546,424.0
Quebec.....	8,179,800.0	—	—	8,179,800.0
Halifax.....	2,243,648.0	—	—	2,243,648.0
Saint John.....	9,760,157.0	2,482.0	—	9,762,639.0
Totals.....	120,910,608.0	714,434.0	88,385,879.0	210,010,921.0

Table F-13.—Carlot Inspections from August 1, 1953 to July 31, 1954, by Grains, Grades and Points

Grade	Montreal	Toronto	Chatham	Total
	Carlots			

WHEAT

1 Canada Eastern Red Winter.....	—	—	4	4
2 Canada Eastern Red Winter.....	—	—	1	1
1 Canada Eastern White Winter.....	—	7	1,077	1,084
2 Canada Eastern White Winter.....	104	370	689	1,163
3 Canada Eastern White Winter.....	3	74	89	166
4 Canada Eastern White Winter.....	—	7	8	15
5 Canada Eastern White Winter.....	2	—	2	4
1 Canada Eastern Mixed Winter.....	3	—	501	504
2 Canada Eastern Mixed Winter.....	4	52	434	490
3 Canada Eastern Mixed Winter.....	—	6	109	115
4 Canada Eastern Mixed Winter.....	—	—	5	5
5 Canada Eastern Mixed Winter.....	—	—	2	2
6 Canada Eastern Winter.....	—	4	—	4
Tough.....	4	131	892	1,027
Smutty.....	19	10	86	115
Sample.....	—	6	59	65
Unfit for Human Consumption.....	—	—	5	5
Condemned.....	—	—	1	1
Totals, Wheat.....	139	667	3,964	4,770

OATS

2 Canada Eastern White.....	1	1	—	2
3 Canada Eastern.....	—	1	4	5
4 Canada Eastern.....	—	1	2	3
1 Feed.....	1	—	—	1
Mixed Feed Oats.....	—	11	—	11
Tough.....	—	—	1	1
Totals, Oats.....	2	14	7	23

**Table F-13.—Carlot Inspections from August 1, 1953 to July 31, 1954,
by Grains, Grades and Points—continued**

Grade	Montreal	Toronto	Chatham	Total
	Carlots			
BARLEY				
2 Canada Eastern Six Row.....	—	—	1	1
3 Canada Eastern Six Row.....	2	2	596	600
4 Canada Eastern.....	23	2	47	72
5 Canada Eastern.....	2	—	7	9
6 Canada Eastern.....	—	—	2	2
2 Feed.....	47	101	—	148
3 Feed.....	5	1	—	6
Sample Barley and Broken Grain.....	8	8	—	16
Tough.....	—	—	82	82
Damp.....	—	—	1	1
Sample.....	—	—	1	1
Totals, Barley.....	87	114	737	938
RYE				
1 Canada Eastern.....	—	—	6	6
2 Canada Eastern.....	—	13	60	73
3 Canada Eastern.....	—	—	9	9
Tough.....	—	1	36	37
Sample.....	—	—	2	2
Totals, Rye.....	—	14	113	127
MIXED GRAIN				
1 Canada Eastern.....	—	—	2	2
3 Canada Eastern.....	—	1	—	1
Sample.....	—	4	—	4
Totals, Mixed Grain.....	—	5	2	7
BUCKWHEAT				
2 Canada Western.....	1	—	—	1
2 Canada Eastern.....	1	—	3	4
Tough Canada Eastern.....	4	—	9	13
Tough Canada Western.....	4	—	—	4
Damp.....	—	—	2	2
Moist.....	—	—	1	1
Sample.....	—	—	2	2
Totals, Buckwheat.....	10	—	17	27

**Table F-13.—Carlot Inspections from August 1, 1953 to July 31, 1954,
by Grains, Grades and Points—continued**

Grade	Montreal	Toronto	Chatham	Total
	Carlots			
CORN				
Extra Dry 1 Canada Eastern Yellow.....	1	7	887	895
1 Canada Eastern Yellow.....	—	1	1,668	1,669
Extra Dry 2 Canada Eastern Yellow.....	1	2	265	268
2 Canada Eastern Yellow.....	2	28	691	721
Extra Dry 3 Canada Eastern Yellow.....	—	1	57	58
3 Canada Eastern Yellow.....	—	9	86	95
Extra Dry 4 Canada Eastern Yellow.....	—	—	13	13
4 Canada Eastern Yellow.....	3	—	27	30
Extra Dry 5 Canada Eastern Yellow.....	—	—	2	2
5 Canada Eastern Yellow.....	—	—	2	2
Extra Dry 1 Canada Eastern White.....	—	—	1	1
Extra Dry 1 Canada Eastern Mixed.....	—	—	2	2
Tough.....	2	3	508	513
Damp.....	—	1	911	912
Moist.....	—	—	415	415
Wet.....	—	—	38	38
Sample.....	—	1	5	6
Totals, Corn.....	9	53	5,578	5,640
BEANS				
1 Canada Eastern Pea.....	—	—	278	278
2 Canada Eastern Pea.....	—	—	255	255
3 Canada Eastern Pea.....	—	—	14	14
3 Canada Eastern Yellow Eyes.....	—	—	2	2
Tough.....	2	—	9	11
Totals, Beans.....	2	—	558	569
SOYBEANS				
1 Canada Yellow.....	—	273	1,137	1,410
2 Canada Yellow.....	—	20	149	169
3 Canada Yellow.....	—	5	14	19
4 Canada Yellow.....	—	2	1	3
5 Canada Yellow.....	—	—	3	3
Tough.....	—	6	50	56
Damp.....	—	—	1	1
Moist.....	—	—	1	1
Sample.....	—	—	2	2
Totals, Soybeans.....	—	306	1,358	1,664
FLAXSEED				
1 Canada Eastern.....	—	5	—	5
2 Canada Eastern.....	—	1	—	1
Tough.....	—	2	—	2
Totals, Flaxseed.....	—	8	—	8

**Table F-13.—Carlot Inspections from August 1, 1953 to July 31, 1954,
by Grains, Grades and Points—concluded**

Grade	Montreal	Toronto	Chatham	Total
	Carlots			
PEAS				
1 Canada Eastern White.....	—	—	1	1
2 Canada Eastern White.....	2	—	1	3
3 Canada Western Small Yellow.....	4	—	—	4
3 Canada Eastern.....	1	—	—	1
Damp.....	1	—	—	1
Totals, Peas.....	8	—	2	10
Totals, All Grains.....	257	1,181	12,336	13,774

APPENDIX G

Grain Weighing Branch

S. M. CAPON, *Chief Grain Weighmaster*

Under provisions of sections 33 and 124 of the Canada Grain Act, all grain received at or shipped from licensed terminal elevators is weighed by the Board's weighing staffs. The same weighing service is also provided at licensed mill elevators as may be required by licensees. During 1953-54 weighing service was provided at 47 public, semi-public and private terminal elevators in the Western Division. No provision is made by the Board for the weighing by its weighmen of all receipts and shipments of grain at eastern elevators, but at nine of these elevators outward truck and carlot shipments for domestic use are weighed by local weighmen who are authorized to issue the Board's weight certificates.

All scales and other equipment for transferring grain from and to the scales in all licensed eastern, terminal and mill elevators, have been regularly inspected by officials of the Weighing Branch under provisions of section 92 of the Act. By special arrangement with the Standards Branch of the Department of Trade and Commerce, the Chief Grain Weighmaster and the Board's scale expert are authorized to act as inspectors under the Weights and Measures Act to inspect, verify and stamp once every year, all weighing machines in licensed terminal and eastern elevators. This inspection has been carried out at all these elevators. In addition to the inspection under the Weights and Measures Act, another inspection is made of all terminal elevator scales once each year and special inspections both of eastern and terminal elevator scales are made whenever any doubt arises as to the accuracy of a scale.

At all railway yards where sampling is carried out and at points of unload, railway cars containing grain are examined in accordance with section 39 of the Canada Grain Act to ascertain if there is any evidence of leakage. Leakages and bad order cars are reported to the consignee and the railway company. During 1953-54 cars found leaking totalled 58,324, and 5,760 cars were without seals or had defective seals.

During the crop year ended July 31, 1954, 307,696 carlots of grain were weighed on receipt into terminal and mill elevators, and 27,596 carlots on shipment from these elevators. In addition 476 million bushels of all grains were weighed into vessels.

Under provisions of sections 139 and 140, the Weighing Branch is required to weigh over stocks of grain contained in every terminal and eastern elevator once in each crop year. During 1953-54, thirty-four terminal and nineteen eastern elevators were weighed over and results were submitted to the Board's Statistics Branch for comparison with outstanding warehouse receipts and preparation of official statements.

This Branch continued close checking of outturns at eastern elevators of cargoes loaded at Lakehead terminal elevators. Upon complaint, investigations were made to determine the cause of excessive shortages. Where liability for shortages could be established, arrangements were made for settlement between the parties involved. Despite several excessive shortages reported, the in-transit loss on cargo shipments to eastern elevators and United States ports during 1953-54 remained at a reasonable level.

The following tables summarize the grain weighed and other information relating to the work of this Branch.

Table G-1—Gross Quantities of All Grains Weighed at Terminal Elevators in the Western Division during 1953-54 Crop Year

Point	Wheat	Oats	Barley	Rye	Flaxseed	Canadian Corn	Canadian Buckwheat	U.S.A. Wheat	U.S.A. Barley	U.S.A. Corn	Canadian Miscellaneous
	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lb.
RECEIPTS											
Fort William-Port Arthur....	165,231,056	95,521,773	89,163,462	11,546,053	8,574,390	1,427	323,704	—	—	7,372	56,649,923
Vancouver-New Westminster.....	108,724,093	2,714,087	14,890,457	45,644	617,727	—	—	—	101,178	—	14,506,370
Victoria.....	3,337,900	1,519	6,464	—	—	—	—	—	—	—	—
Prince Rupert.....	5,331,712	782	3,162,507	—	—	—	—	—	—	—	—
Churchill.....	11,245,553	878	—	—	—	—	—	—	—	—	—
Calgary.....	481,482	22,162	1,300,608	80,139	46,752	1,997	—	—	—	—	47,530
Edmonton.....	926,213	196,892	62,692	—	167,902	6,867	—	—	—	—	98,340
Lethbridge.....	107,208	—	—	1,597	—	—	—	—	—	—	4,000
Moose Jaw.....	942,010	6,634	14,691	9,458	5,010	—	—	—	—	—	10,000
Saskatoon.....	1,266,637	384	—	—	—	—	—	—	—	—	5,520,205
North Transcona.....	1,372,362	68,185	78,552	11,632	3,938	—	—	—	—	—	18,589,100
Total Receipts.....	298,966,226	98,533,296	108,679,433	11,694,523	9,417,652	10,291	323,704	—	101,178	7,372	95,425,468
SHIPMENTS											
Fort William-Port Arthur.....	138,456,200	100,149,982	91,160,643	16,219,383	7,426,172	1,427	316,301	—	—	—	409,550,857
Vancouver-New Westminster.....	106,556,498	4,110,302	14,631,937	47,084	618,905	—	—	13,202	138,875	—	172,329,280
Victoria.....	3,122,380	52,620	205,746	—	—	—	—	—	—	—	3,438,190
Prince Rupert.....	5,211,175	6,306	2,863,466	—	—	—	—	—	—	—	21,438,360
Churchill.....	10,980,712	76,098	—	—	—	—	—	—	—	—	6,683,552
Calgary.....	1,008,374	24,430	1,328,753	80,068	40,191	1,997	—	—	—	—	741,190
Edmonton.....	1,444,625	257,468	63,417	—	150,329	8,366	—	—	—	—	1,843,550
Lethbridge.....	12,412	6,412	—	1,597	1,895	—	—	—	—	—	205,630
Moose Jaw.....	546,906	6,634	14,691	9,458	5,010	—	—	—	—	—	2,055,500
Saskatoon.....	452,189	6,465	—	—	—	—	—	—	—	—	10,362,270
North Transcona.....	1,338,922	135,591	71,381	11,632	3,938	—	—	—	—	—	16,455,310
Total Shipments.....	268,130,499	104,832,108	110,340,034	16,369,222	8,246,440	11,790	316,301	13,202	138,875	—	645,103,739

NOTE: Weighing service was also given on 35,177 carlots of grain received at interior mills and feed plants, and on 6,497 carlots shipped.

Table G-2.—Number of Cars Leaking and Cars with Missing Seals at the Lakehead, at Other Points and at Winnipeg Yards, by Railways for the Crop Year 1953-54

Destination	Cars Leaking		Missing Seals	
	C.N.R.	C.P.R.	C.N.R.	C.P.R.
Lakehead Elevators and Yards.....	17,866	22,988	743	1,960
Other Points.....	7,191	10,279	1,115	1,942
Totals	25,057	33,267	1,858	3,902
Totals, Both Railways	58,324		5,760	
Winnipeg Yards.....	1,988	2,946	783	1,263

Table G-3.—Number of Cars Weighed at all Points and Percentage of such Cars found Leaking or with Defective Seals, Crop Years 1952-53 and 1953-54

	Number		Percentage of Total	
	1952-53	1953-54	1952-53	1953-54
Cars Weighed In.....	407,668	307,591	100.0	100.0
Inward Cars Leaking.....	77,146	58,324	17.1	18.9
Inward Cars with Missing or Defective Seals.....	7,016	5,760	1.7	1.9
Cars Weighed Out.....	49,006	27,596	—	—

Table G-4.—Average Reported Outturn Shortages on Vessel Shipments of Grain from Fort William-Port Arthur to Canadian and United States ports during the 1953-54 Crop Year

Grain	Bushels Shipped	Shortage in Pounds per 1,000 Bushels
CANADIAN PORTS		
Wheat.....	121,361,666	30.1
Durum Wheat.....	7,185,059	39.1
Oats.....	34,613,198	20.1
Barley.....	49,045,209	28.7
Rye.....	712,145	34.8
Flaxseed.....	5,498,361	40.6
Buckwheat.....	230,841	32.5
Sample Grain (in lbs.).....	16,743,667	.3 lbs. per 1,000 lbs.
Screenings (in tons).....	20,460	1.9 lbs. per ton
UNITED STATES PORTS		
Wheat.....	6,009,049	70.1
Oats.....	52,358,989	29.5
Barley.....	34,571,014	65.7
Rye.....	15,028,067	67.6
Sample Grain (in lbs.).....	4,927,848	Nil
Screenings (in tons).....	54,601	Nil

TOTAL CANADIAN AND UNITED STATES PORTS

Wheat.....	127,370,715	32.0
Durum Wheat.....	7,185,059	39.1
Oats.....	86,972,187	25.8
Barley.....	83,616,223	44.0
Rye.....	15,740,212	66.1
Flaxseed.....	5,498,361	40.6
Buckwheat.....	230,841	32.5
Sample Grain (in lbs.).....	21,671,515	.3 lbs. per 1,000 lbs.
Screenings (in tons).....	75,061	.5 lbs. per ton

APPENDIX H

Statistics Branch

E. E. BAXTER, *Chief Statistician*

This Branch collects, compiles and issues statistics relating to grain movement. Principal grain statistics for 1953-54 crop year and the 1954 season of lake navigation are presented in the following comments and tables.

GRAIN SUPPLIES AND DISPOSITION

A total supply of 1,967.1 million bushels of wheat, oats, barley, rye and flaxseed was available in 1953-54 for domestic use, export and carryover. This was made up of a near record carryover at August 1, 1953 of 645.4 million bushels to which was added the 1953 crops of wheat (614.0 millions), oats (407.0 millions), barley (262.1 millions), rye (28.8 millions), and flaxseed (9.9 million bushels). Disappearance dropped sharply from the high levels of 1952-53; exports declined to 437.9 millions from the record 582.8 million bushels established for the previous year and domestic shipments amounted to 645.7 millions against 670.6 millions for the year ending July 31, 1953. This reduced utilization left a record 883.5 million bushel carryover of Canadian grain on hand when the 1953-54 season ended. Wheat stocks alone totalled 590.3 millions and a further 293.2 millions of oats, barley, rye, flaxseed, combined, were held either in licensed elevators, in transit, or in farmers' bins at July 31, 1954. The balance on operations is shown in broad detail in Table H-1.

MARKETINGS

The flow of grain from farms into commercial channels declined substantially in 1953-54. Western farmers were able to market at country elevators 601.3 million bushels of the five principal grains against the record 834.1 million bushels delivered during the previous crop season. A further 7.0 millions of western grain was delivered to interior terminal and mill elevators, or loaded over platforms. Eastern farmers marketed 8.1 millions to complete the grand total of 616.4 million bushels of wheat, oats, barley, rye and flaxseed delivered to the licensed system during the crop season as against 850.5 million bushels in 1952-53. A summary of western marketings appears in Table H-2.

TERMINAL AND EASTERN HANDLINGS

The overall volume of grain moving forward for domestic use and export through terminal and eastern elevators was sharply reduced in 1953-54; however, Pacific Coast terminals experienced a record handling season. Fort William-Port Arthur elevators received 185,340 cars carrying 360.5 million bushels of the five principal grains compared with 282,965 cars (530.0 million bushels) the previous season. Lake shipments during the crop season amounted to 327.6 millions—131.0 millions less than the 1952-53 high volume.

The reduction in the flow of grain moving into the licensed system was also apparent in lighter eastern elevator operations. Eastern elevators received 233.1 million bushels either from the west or direct from eastern farms against approximately 400 million bushels in the previous year. Domestic shipments

to mills, manufacturing plants and feeders totalled 94.9 millions; overseas exports from St. Lawrence and Maritime ports amounted to 118.2 millions and a further 7.9 million bushels of the five grains moved through these channels to the United States for domestic use.

Both the Pacific Seaboard terminals and the National Harbours Board elevator at Churchill experienced record handlings in 1953-54. Pacific Coast ports shipped 113.3 million bushels of wheat, 2.6 millions of oats, 17.4 millions of barley, and .6 million bushels of flaxseed to account for over 50 per cent of Canada's overseas grain clearances and thereby alter the traditional west-to-east shipping pattern of Canadian grain moving forward for export. The port of Churchill further expanded shipping through the northern passage with the loading of 11.0 million bushels of wheat in 1953-54. Further details of these handlings may be found in Tables H-3 to H-6.

EXPORTS

Canada's grain exports during the crop year 1953-54 totalled 437.9 million bushels of the five principal grains, wheat flour, rolled oats and oatmeal. Although down from the record level of 582.8 millions in 1952-53, these clearances still represented a major share of the world trade in commercial grains and retained for Canada her position as the leading grain exporting nation of 1953-54.

Canada exported 255.1 million bushels of wheat and wheat flour, 70.7 million bushels of oats and milled oats, 90.1 million bushels of barley, 16.8 million bushels of rye and 5.2 million bushels of flaxseed during the crop season. Oats, rye, flaxseed, rolled oats, and oatmeal exports represented gains over Canada's 1952-53 clearances of these commodities; the exports of wheat, wheat flour and barley dropped from last year's levels although still holding above the long-term average of the annual exports since 1923-24. Principal data on this export movement appear in tables H-7 to H-9 and full particulars are presented in the publication *Canadian Grain Exports 1953-54**, prepared by this Branch.

LAKE TRANSPORTATION 1954 SEASON

The first vessel of the 1954 season to reach the Lakehead was the *S.S. Starbelle*, entering port on April 16, 20 days later than the 1953 opening. The last vessel, the *S.S. John E. F. Misener* closed the season on December 14, ten days earlier than the December 24 late closing record set in 1923. The *S.S. Misener* represented the 1,104th cargo loaded during the season, less than two-thirds the 1,833 vessels which cleared Fort William-Port Arthur during 1953. The shipping total for the 1954 season included 292.7 million bushels of the five principal grains; this was down substantially from the 1953 volume of 441.7 millions and from the record 483.7 millions moved from the Lakehead by vessel in 1945. The 1954 season was the lightest since 1950 (201.9 millions) but still well in excess of the record low of 113.4 millions moved in 1937. The following individual grain totals are recorded for 1954; wheat, 140.7 millions, oats, 58.5 millions, barley, 80.6 millions, rye, 8.5 millions and flaxseed, 4.4 million bushels.

A reduced demand for lake grain tonnage was evident early in the 1954 season. In May, rates broke 1 to 2 cents per bushel from the maximum allowable levels which had prevailed for the past several seasons. Further adjustments later in the year brought the average for the season on wheat cargoes to Bay Ports to 4.3 cents per bushel against 5.5 cents last year and on wheat

* See list of publications in Appendix M.

to Montreal, direct, to 14.4 cents as compared with 16.0 cents for 1953. Similar declines were registered in the rates on other grains and on cargoes to United States ports with wheat from Fort William to Buffalo averaging 6.2 cents per bushel over the season, down 2.3 cents per bushel from the previous year's average. Details of these rates appear in Table H-10.

GENERAL

The Branch continued its major function of collecting, recording and publishing pertinent statistics on Canadian grain operations. Statistical bulletins were distributed to the grain trade and interested persons without charge. This year the principal release, a mimeographed weekly bulletin, *The Canadian Grain Position* was revised and expanded to provide improved detail. Adaption of reports and records to the punch-card accounting system installed during 1953 was further expanded. The office worked in close co-operation with the trade to improve and standardize outturn forms and reporting procedures.

The general functions of the Branch also included the preparation of statements covering the weighover of grain in terminal and eastern elevators. Detailed records of Canadian grain prices have been maintained as required under section 21 of the Canada Grain Act, and in pursuance of section 102 storage value reports and grain insurance documents have been examined to ensure adequate protection to the owners of grain held in licensed elevators. Annual stock and handling returns from 5,174 country elevators, required under Board Regulation No. 17, have been received, checked and tabulated by means of punched cards and analytical statements have been prepared on overages and shortages on 1953-54 country elevator operations for Board review.

Table H-1.—Supply and Disposition of Canadian Grain, Crop Year 1953-54

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
SUPPLY					
Carry-over July 31, 1953.....	369,185,486	144,409,075	111,666,834	16,190,618	3,939,420
Production in 1953.....	613,962,000	406,960,000	262,065,000	28,775,000	9,912,000
Total Supply.....	983,147,486	551,369,075	373,731,834	44,965,618	13,851,420
DISPOSITION					
Exported Overseas.....	247,468,998	4,822,461	53,123,132	538,813	5,172,216
Exported to U.S.A.....	7,678,152	65,877,614	36,921,199	16,296,240	—
Consumed in Canada*.....	137,694,660	354,943,615	138,109,571	8,855,870	6,101,492
Total Disposition*.....	392,841,810	425,643,690	228,153,902	25,690,923	11,273,708
CARRY-OVER (July 31, 1954)					
On Farms (estimated).....	205,860,000	97,250,000	96,810,000	12,860,000	1,030,000
In Country, Private Terminal and Mill Elevators.....	217,680,708	20,412,978	33,976,015	3,661,643	463,371
In Public and Semi-Public Terminal Elevators.....	77,338,596	2,095,796	7,711,397	1,400,199	646,381
In Store at and Afloat to Eastern Elevators.....	71,879,092	3,166,130	3,735,265	813,742	313,874
In Eastern Flour Mills*.....	2,066,000	176,000	100,000	6,000	—
In Transit by Rail—Eastern and Western Divisions*.....	15,374,001	2,624,481	3,241,755	474,409	124,086
In Store and in Transit to the United States.....	107,279	—	63,500	28,702	—
Total in Store July 31, 1954*..	590,305,676	125,725,385	145,577,932	19,274,695	2,577,712

* Subject to revision.

**Table H-2.—Production and Producers' Marketings in Western Canada, by Provinces,
Crop Year 1953-54**

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
PRODUCTION (DBS estimate)					
Manitoba.....	46,000,000	53,000,000	61,000,000	2,750,000	3,800,000
Saskatchewan.....	375,000,000	111,000,000	82,000,000	14,400,000	3,500,000
Alberta and British Columbia.....	165,605,000	117,586,000	110,716,000	9,860,000	2,075,000
Totals.....	586,605,000	281,586,000	253,716,000	27,010,000	9,375,000
PRODUCERS' MARKETINGS—					
(a) At Country Elevators					
Manitoba.....	35,664,693	17,542,840	30,242,222	1,651,980	2,938,827
Saskatchewan.....	251,324,108	42,897,169	35,580,402	6,655,338	2,506,838
Alberta.....	105,438,836	28,653,275	35,135,241	3,408,296	1,638,120
Totals.....	392,427,637	89,093,284	100,957,865	11,715,614	7,083,785
(b) At Public and Semi-Public Terminals					
Manitoba.....	2,373	1,514	9,668	—	—
Saskatchewan.....	—	—	—	—	—
Alberta.....	108,800	197,975	44,967	—	1,129
Totals.....	111,173	199,489	54,635	—	1,129
(c) At Interior Private and Mill Elevators					
Manitoba.....	369,419	74,250	41,926	—	120,729
Saskatchewan.....	1,645,530	228,249	82,533	11,411	13,101
Alberta.....	2,017,279	617,630	136,389	91,407	146,875
Totals.....	4,032,228	920,129	260,848	102,818	280,705
(d) Loaded over Platforms					
Manitoba.....	75,338	34,993	51,087	1,600	9,632
Saskatchewan.....	174,173	50,821	55,970	3,095	18,035
Alberta.....	140,060	68,169	16,664	2,900	9,292
Totals.....	389,571	153,983	123,721	7,595	36,959
(e) Trucked from Farms into United States*					
Manitoba.....	—	—	—	174,715	—
Saskatchewan.....	—	—	—	208,525	—
Alberta.....	—	—	—	50	—
Totals.....	—	—	—	383,290	—
Total Producers' Marketings					
Manitoba.....	36,111,823	17,653,597	30,344,903	1,828,295	3,069,188
Saskatchewan.....	253,143,811	43,176,239	35,718,905	6,878,369	2,537,974
Alberta.....	107,704,975	29,537,049	35,333,261	3,502,653	1,795,416
Totals.....	396,960,609	90,366,885	101,397,069	12,209,317	7,402,578

* Customs returns, Dominion Bureau of Statistics.

Table H-3.—Receipts and Shipments at Eastern Elevators, Crop Year 1953-54

	Receipts	Shipments
	bu.	bu.
Canadian Grain—		
Wheat.....	139,092,980	121,853,724
Oats.....	35,153,999	36,282,410
Barley.....	50,826,294	53,925,172
Rye.....	980,437	1,599,823
Flaxseed.....	7,068,498	7,281,734
Corn.....	4,268,779	4,476,646
Beans.....	1,526,996	1,552,945
Buckwheat.....	535,671	611,787
Peas.....	209,835	207,836
Mixed Grain..... (lbs.)	259,410	2,840,510
Sample Grain..... (lbs.)	18,903,210	19,283,027
United States Grain—		
Wheat.....	—	84
Flaxseed.....	3,568,757	2,518,166
Corn.....	12,062,829	11,497,716
Beans.....	557,909	662,436
Other Foreign Grain—		
Argentine Oats.....	—	1,147

Table H-4.—Shipments of Foreign Grain from Canadian Elevators into Canadian Consumer Channels, Crop Year 1953-54

From	United States Wheat	United States Corn	United States Beans	Argentine Oats
	bu.	bu.	bu.	bu.
Eastern Elevators.....	84	2,862,706	633,611	1,147
Fort William-Port Arthur.....	—	7,368	—	—
Interior Terminals.....	—	—	—	—
Interior Private and Mill Elevators.....	—	576,605	—	—
Pacific Coast Elevators.....	13,202	—	—	—

Table H-5.—Receipts and Shipments of Canadian Grain at Terminal Elevators, Crop Year 1953-54

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Fort William-Port Arthur—					
Receipts.....	161,142,098	93,818,372	87,166,492	11,072,577	7,285,894
Shipments.....	138,210,842	99,571,306	90,420,016	16,043,943	7,270,196
Vancouver-New Westminster—					
Receipts.....	105,251,142	2,586,998	14,597,005	44,955	617,705
Shipments.....	105,873,128	4,072,655	14,536,392	47,084	618,891
Victoria—					
Receipts.....	3,245,628	1,357	6,396	—	—
Shipments.....	3,122,387	52,620	205,745	—	—
Prince Rupert—					
Receipts.....	5,140,072	709	3,122,847	—	—
Shipments.....	5,211,174	6,306	2,863,467	—	—
Churchill—					
Receipts.....	11,020,002	878	—	—	—
Shipments.....	10,980,712	76,099	—	—	—
Transcona—					
Receipts.....	1,348,360	68,159	78,198	11,632	3,938
Shipments.....	1,338,923	135,391	71,381	11,632	3,938
Calgary—					
Receipts.....	474,225	22,005	1,299,999	80,087	39,641
Shipments.....	1,008,374	24,430	1,328,752	80,068	39,641
Edmonton—					
Receipts.....	895,650	196,398	62,544	—	148,736
Shipments.....	444,625	257,469	63,417	—	148,736
Lethbridge—					
Receipts.....	104,879	—	—	1,597	1,873
Shipments.....	12,412	6,412	—	1,597	1,873
Moose Jaw—					
Receipts.....	925,554	6,633	14,692	9,458	5,011
Shipments.....	546,996	6,633	14,692	9,458	5,011
Saskatoon—					
Receipts.....	1,227,967	384	—	—	—
Shipments.....	452,199	6,465	—	—	—
Total Receipts.....	290,775,577	96,701,893	106,348,173	11,220,306	8,102,798
Total Shipments.....	267,201,772	104,215,786	109,503,862	16,193,782	8,088,286

Table H-6.—Supply and Disposition of Canadian Grain in United States Positions, Crop Year 1953-54

—	Wheat	Oats	Barley	Rye
	bu.	bu.	bu.	bu.
SUPPLY				
In Store and In Transit, U.S.A.....	535,395	733,159	265,550	792,283
Receipts direct from Canada.....	7,905,544	65,144,455	36,873,649	15,503,957
Total Supply.....	8,440,939	65,877,614	37,139,199	16,296,240
DISPOSITION				
Exported.....	125,606	—	—	—
Returned to Canada.....	529,902	—	218,000	—
Used Domestically.....	7,678,152	65,877,614	36,921,199	16,296,240
Total Disposition.....	8,333,660	65,877,614	37,139,199	16,296,240
In Store and In Transit, July 31, 1954.....	107,279	—	—	—

Table H-7.—Exports of Canadian Wheat, by Seaboard Sectors, by Months, Crop Year 1953-54

	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via Fort William- Port Arthur direct	Via United States Atlantic Ports	United States Imports ¹		Total All Wheat	Wheat Flour ²	Total Wheat and Wheat Flour
						For Domestic Use	Milling in Bond			
—	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
1953										
August.....	12,610,277	7,010,119	4,454,772	—	77,187	285,171	283,794	24,721,320	3,724,146	28,445,466
September.....	9,756,064	6,694,023	4,164,673	57,354	—	94,568	103,352	20,870,064	3,364,834	24,234,898
October.....	9,932,934	10,194,468	1,862,467	43,120	39,233	196,591	61,672	22,330,485	3,370,941	25,701,426
November.....	10,153,746	8,661,501	—	—	—	843,730	705,679	20,364,646	4,052,313	24,416,959
December.....	9,926,337	2,930,638	—	—	—	547,141	247,717	13,651,833	4,102,767	17,754,600
1954										
January.....	10,393,275	3,023,101	—	—	—	409,376	—	13,825,752	3,962,394	17,788,146
February.....	8,929,144	1,334,478	—	—	9,186	286,991	—	10,559,799	3,126,456	13,686,255
March.....	10,313,657	3,765,826	—	—	—	167,378	—	14,246,861	4,634,010	18,880,871
April.....	7,576,348	3,131,530	—	—	—	776,867	—	11,484,745	3,806,532	15,291,277
May.....	8,392,826	8,551,670	—	42,266	—	606,442	621,688	18,214,892	4,254,687	22,469,579
June.....	7,617,208	12,236,446	—	—	—	1,183,548	136,807	21,174,009	4,021,821	25,195,830
July.....	7,743,376	9,028,924	498,800	—	—	119,620	—	17,390,720	3,891,123	21,281,843
Totals Crop Year 1953-54.....	113,345,192	76,562,724	10,980,712	142,740	125,606	5,517,413	2,160,739	208,835,126	46,312,024	255,147,150
Totals Crop Year 1952-53.....	104,715,854	188,836,538	8,620,622	206,911	3,748,939	17,133,344	5,763,620	329,025,828	56,500,713³	385,526,541
5-year average 1948-49 to 1952-53...	78,875,913	126,760,943	6,755,137	128,097	3,850,644	13,391,177	6,733,957	236,495,868	51,459,884³	287,955,752

¹ Compiled from returns received from Canadian elevator licensees and shippers, and from reports supplied by United States grain correspondents.² Canadian Customs returns—converted to bushel equivalents (4.5 bushels of wheat to one barrel of flour).³ Revised—adjusted to remove effect of time lag in reports made by Customs.

Table H-8.—Overseas Exports of Canadian Grain, by Seaboard Sectors, by Grades, Crop Year 1953-54

Grades	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports*	Via Churchill	Via United States Atlantic Ports	Total
	bu.	bu.	bu.	bu.	bu.
WHEAT—					
1 Manitoba Northern.....	7,839,651	7,988,669	584,675	—	16,412,995
2 Manitoba Northern.....	41,117,916	35,167,823	6,680,486	9,186	82,975,411
3 Manitoba Northern.....	38,206,728	15,944,881	1,345,700	—	55,497,309
4 Manitoba Northern.....	13,504,290	3,297,475	634,998	—	17,436,763
No. 5.....	10,762,688	3,463,048	1,734,853	—	15,960,589
No. 6.....	704,733	83	—	—	704,816
Feed.....	—	13,084	—	—	13,084
2 C.W. Garnet.....	112,412	—	—	—	112,412
3 C.W. Garnet.....	896,238	—	—	—	896,238
2 Alberta Winter.....	148,020	—	—	—	148,020
3 Alberta Winter.....	52,516	—	—	—	52,516
Other Western.....	—	614,221	—	—	614,221
Eastern.....	—	4,295,901	—	116,420	4,412,321
3 C.W. Amber Durum.....	—	5,506,163	—	—	5,506,163
4 C.W. Amber Durum.....	—	414,116	—	—	414,116
Totals.....	113,345,192	76,705,464	10,980,712	125,606	201,156,974
OATS—					
2 C.W.....	2,941	64,522	—	—	67,463
Extra 3 C.W.....	—	49,892	—	—	49,892
3 C.W.....	187,904	285,763	—	—	473,667
Extra 1 Feed.....	1,144,861	—	—	—	1,144,861
1 Feed.....	855,941	265,397	—	—	1,121,338
2 Feed.....	—	16,470	—	—	16,470
Mixed Feed.....	439,070	683,911	—	—	1,122,981
Eastern.....	—	39,359	—	—	39,359
Totals.....	2,630,717	1,405,314	—	—	4,036,031
BARLEY—					
3 C.W. Six-Row.....	6,006,523	4,107,338	—	—	10,113,861
4 C.W. Six-Row.....	—	460,542	—	—	460,542
2 C.W. Two-Row.....	43,576	—	—	—	43,576
3 C.W. Two-Row.....	1,490,509	2,512,536	—	—	4,003,045
1 Feed.....	8,438,356	6,012,188	—	—	14,450,544
2 Feed.....	1,150,455	20,739,684	—	—	21,890,139
3 Feed.....	—	1,731,319	—	—	1,731,319
Tough 1 Feed.....	—	11,667	—	—	11,667
Tough 2 Feed.....	—	42,000	—	—	42,000
Tough 3 Feed.....	—	27,945	—	—	27,945
Other Western.....	222,560	105,920	—	—	328,480
Eastern.....	—	20,014	—	—	20,014
Totals.....	17,351,979	35,771,153	—	—	53,123,132
RYE—					
2 C.W.....	26,000	138,045	—	—	164,045
3 C.W.....	—	374,768	—	—	374,768
Totals.....	26,000	512,813	—	—	538,813
FLAXSEED—					
1 C.W.....	618,049	4,514,229	—	—	5,132,278
Other Western.....	—	35,202	—	—	35,202
Eastern.....	—	4,736	—	—	4,736
Totals.....	618,049	4,554,167	—	—	5,172,216

* Includes clearances of 142,740 bushels wheat and 641,683 bushels barley from Fort William-Port Arthur direct.

Table H-9.—Overseas Exports of Canadian Grain, by Ports, Crop Year 1953-54

Loaded at	Wheat (All varieties)	Oats	Barley	Rye	Flaxseed	Total All Grains
	bu.	bu.	bu.	bu.	bu.	bu.
Vancouver-New Westminster.....	105,013,352	2,597,776	14,284,408	26,000	618,049	122,539,585
Victoria.....	3,120,666	32,941	204,104	—	—	3,357,711
Prince Rupert.....	5,211,174	—	2,863,467	—	—	8,074,641
Montreal.....	52,463,191	1,381,968	32,525,596	512,813	3,198,476	90,082,044
Sorel.....	3,156,800	—	454,000	—	—	3,610,800
Three Rivers.....	3,546,425	—	—	—	—	3,546,425
Quebec.....	7,760,864	—	419,470	—	40,862	8,221,196
St. John.....	401,333	—	—	—	—	401,333
West St. John.....	6,800,287	23,346	1,730,404	—	1,169,039	9,723,076
Halifax.....	2,433,824	—	—	—	145,790	2,579,614
Churchill.....	10,980,712	—	—	—	—	10,980,712
Fort William-Port Arthur (direct)...	142,740	—	641,683	—	—	784,423
Totals—Canadian Ports.....	201,031,368	4,036,031	53,123,132	538,813	5,172,216	263,901,560
New York.....	9,186	—	—	—	—	9,186
Philadelphia.....	116,420	—	—	—	—	116,420
Totals—U.S.A. Ports.....	125,606	—	—	—	—	125,606
Totals to Overseas.....	201,156,974	4,036,031	53,123,132	538,813	5,172,216	264,027,166
Wheat Flour ¹	46,312,024	—	—	—	—	46,312,024
Rolled Oats and Oatmeal ¹	—	786,430	—	—	—	786,430
U.S.A. Imports ²	7,678,152	65,877,614	36,921,199	16,296,240	—	126,773,205
Grand Totals.....	255,147,150	70,700,075	90,044,331	16,835,053	5,172,216	437,898,825

¹ Canadian Customs Returns—converted to bushel equivalents (4·5 bushels wheat to 1 barrel of flour 1 bushel of oats to 16·5 pounds of rolled oats or oatmeal).

² Compiled from returns received from Canadian Elevator licensees and shippers and from reports supplied by United States grain correspondents.

Table H-10.—Weighted Average Lake Freight Rates on Canadian Grain from Fort William-Port Arthur, Season of Navigation 1954

Port of Discharge	Wheat	Oats	Barley	Rye	Flaxseed
	(cents per bushel)				
Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	4·296	4·037	4·151	4·167	5·5
Port Colborne.....	6·340	5·933	6·420	6·323	—
Toronto.....	6·918	6·173	6·487	—	6·855
Kingston.....	7·356	6·563	7·089	—	—
Prescott.....	7·514	6·798	7·299	7·868	—
Montreal.....	14·403	11·726	13·648	13·594	16·091
Montreal via Port Colborne.....	14·174	11·352	13·323	13·5	16·126
Montreal via Kingston.....	14·103	11·377	13·151	13·570	15·016
Montreal via Prescott.....	13·872	11·165	13·006	13·5	14·854
Sorel.....	14·5	12·0	—	—	—
Sorel via Port Colborne.....	13·803	—	12·75	—	—
Sorel via Kingston.....	13·5	—	—	—	—
Sorel via Prescott.....	13·5	11·0	12·75	13·5	—
Three Rivers via Port Colborne.....	13·5	—	12·75	—	—
Three Rivers via Prescott.....	13·5	—	—	—	—
Quebec.....	14·269	11·527	13·928	—	—
Quebec via Prescott.....	13·656	11·606	13·254	—	—
Buffalo.....	6·164	4·077	5·160	5·745	—
Chicago.....	7·5	4·201	—	5·558	—
Detroit.....	—	—	5·6	—	—
Duluth-Superior.....	4·711	3·413	4·778	4·116	—
Erie.....	6·756	5·0	—	—	—
Huron.....	6·0	3·337	4·471	—	—
Manitowoc.....	—	—	6·420	—	—
Milwaukee.....	6·303	—	5·737	7·5	—
Oswego.....	—	4·75	10·0	—	—
Toledo.....	—	4·858	—	—	—

NOTE.—Rates originally quoted in United States Funds have been converted to Canadian currency at the prevailing rates of exchange.

TABLE H-11.—Tough and Damp Grain Dried, by Storage Position, Crop Year 1953-54

—	Artificial Drying			Natural Drying	Total
	Tough	Damp	Tough and Damp		
bushels					
LAKEHEAD					
Wheat.....	6,706,519	35,438	6,741,957	12,385,648	19,127,605
Durum Wheat.....	4,250	3,177	7,427	48,364	55,791
Oats.....	29,249	24,718	53,967	851,439	905,406
Barley.....	754,714	13,410	768,124	5,112,721	5,880,845
Rye.....	3,441	—	3,441	689,170	692,611
Flaxseed.....	9,766	1,205	10,971	45,199	56,170
Totals.....	7,507,939	77,948	7,585,887	19,132,541	26,718,428
PACIFIC COAST					
Wheat.....	189,198	19,165	208,363	5,083,589	5,291,952
Oats.....	127,711	9,402	137,113	80,685	217,798
Barley.....	58,988	—	58,988	1,072,336	1,131,324
Flaxseed.....	—	—	—	1,350	1,350
Totals.....	375,897	28,567	404,464	6,237,960	6,642,424
INTERIOR					
Wheat.....	—	7,326	7,326	548,601	555,927
Oats.....	—	859	859	—	859
Totals.....	—	8,185	8,185	548,601	556,786
CHURCHILL					
Wheat.....	530,447	—	530,447	1,342,351	1,872,798
Totals, All Positions.....	8,414,283	114,700	8,528,983	27,261,453	35,790,436

APPENDIX I

The Grain Research Laboratory

J. ANSEL ANDERSON, *Chief Chemist*

The following report deals with the quality of grain marketed during the 1953-54 crop year, the quality of the 1954 crops, and with research and other activities of the Board's Grain Research Laboratory during the year 1954.

GRAIN QUALITY

Crop year studies on the qualities of spring wheat, durum wheat, barley and flax, sampled at various stages of marketing in 1953-54, showed spring wheat was high in bushel weight and similar to that for the previous crop year. Milling quality was excellent but protein content was below the long-time average. Durum wheat was also high in bushel weight, and, although protein content was low, macaroni quality was very good. Malting barley was satisfactory in nitrogen content and high in yield of malt extract. Although the oil yield of flax was a little below that of the previous crop, drying quality was much the same in both crop years. More complete and detailed data have been prepared for early publication in the *Grain Research Laboratory 1954 Report*.*

Severe epidemics of stem and leaf rust, followed by wet harvesting weather, reduced both the yield and grade of 1954 wheat. Less than half the crop will grade No. 4 Northern and higher, and Nos. 1 and 2 Northern will be small grades. Considered as a 3 and 4 Northern crop, bushel weight is lower and protein content is not much different from 1953 wheat. Milling quality is not quite as good this year, but baking strength is higher; absorption and gassing power are satisfactory, and doughs handle very well. Adequate stocks of high grade wheat of good milling quality, carried over from last year, are available for sale in domestic and foreign markets.

Rust damage to durum wheat was more severe and widespread in 1954 than in 1953. Accordingly, despite increased acreage, the 1954 crop is one of the smallest ever harvested. Much of the crop will grade No. 3 C.W. and there will be considerable amounts of lower grades. Grade for grade, macaroni quality is a little better than for last year's crop, and the lower grades are unusually high in yellow pigment.

Malting quality of the new barley crop is above average, but not as good as that of last year's crop. Nitrogen content is a little higher, and bushel weight, percentage plump barley, and kernel weight are lower this year. Despite the small kernel size of this year's barley, yield of malt extract is high and enzymatic activity is well balanced. A good proportion of the new crop is entering the malting grades.

Oil content and iodine number of the current flax crop are the highest recorded since work on flax crops was begun in 1934. More flax was produced this year than last, and the bulk of it is grading No. 1 C.W.

Detailed information on the quality of different grades of 1954 grain crops was presented to the Committee on Western Grain Standards and was published by the laboratory in four crop bulletins and two maps.*

* See Appendix M.

Heavy rains during the early harvesting period of 1954, and restrictions on deliveries, created a serious problem for farmers. The writer prepared a series of five 5-minute talks on "The Problem of Tough and Damp Grain"; these were recorded on tape and were broadcast over eleven stations in Western Canada. The weather subsequently improved, but appreciable amounts of tough and damp grain were harvested in the Peace River district and in the northeastern and northwestern sections of Saskatchewan. As a result, farm drying in these areas began in late November. The laboratory again offered free sample testing service to enable farmers to operate dryers without damage to the quality of grain.

The laboratory continued to work in close co-operation with the Grain Inspection Branch. Assistance was provided in preparing information on the quality of the tentative standard and standard export samples. Supervision of equipment and technique of moisture testing was continued throughout the year, and further field trials were made with electrical moisture meters. Special tests on current crop samples were undertaken, from time to time, to provide information that would assist in grading. The laboratory also continued to co-operate with other Government departments and scientific institutions in problems of mutual interest.

As in previous years, the laboratory took a major part in studies, sponsored by the Associate Committee on Grain Research, of the quality of varieties of spring wheat, durum wheat, and malting barley. The results confirmed the satisfactory milling and baking qualities of Selkirk, and showed that C.T. 918, a variety which has been tested for several years, is equal in quality to Marquis. The latter variety has now been licensed and named Lake, and is recommended for growing in the drier areas of Saskatchewan and Alberta. Among new durum varieties, D.T. 136 and 137 appeared to be the most promising of those resistant to 15B rust. Several new varieties of barley showed good malting quality, especially Brandon 3833 and 3878, and U.M. 570; three new varieties of feed barley, Vantmore, Wolfe and Brant, were licensed during 1954.

In another variety study, sponsored by the Northwest Crop Improvement Association, in which bread wheat varieties suitable for production in the northern United States are tested, the laboratory had opportunity to study the quality of samples of Selkirk grown side by side with Thatcher and Lee at a number of stations in Minnesota and the Dakotas. The results showed that Selkirk is a satisfactory variety similar in quality to Thatcher and Lee. The Canadian variety Selkirk should rapidly become the leading rust-resistant variety of spring wheat in both Canada and the United States.

BASIC RESEARCH

Fundamental research has continued to be a dominant activity of the laboratory. In the bread wheat section, studies of the relation of the physical properties of dough to the breadmaking qualities of wheat have been emphasized. Changes in dough properties are followed by measuring the rate of structural relaxation. This method has been applied to investigations on the effect of the mixing action on doughs mixed in nitrogen, on the effect of acids normally produced in fermented doughs, on the improver action of bromate, and on the influence of salts on dough properties. A more precise method of characterizing structural relaxation curves has been developed. Progress has been made in interpreting Alveogram data on the physical properties of doughs in terms of more fundamental units, and the performance of an English dough testing instrument, the "Research" extensometer, has also been examined. To meet the requirements of the laboratory for dough mixers with an airtight bowl, three units of a new model of the GRL mixer have been built. This mixer has now displaced other types of dough mixers throughout the laboratory.

The durum section has continued work on the enzyme lipoxidase, which is a key factor controlling the macaroni-making quality of durum wheat. It has now been found that the second phase of the reaction shows a break in its activation energy curve similar to that reported for the initial phase. This gives a better understanding of the mechanism of the reaction controlling the loss of color during processing of macaroni. It has also been found that lipoxidase is inhibited by cyanide, which is contrary to previous reports in the literature. The enzyme is also inhibited by the products of the reaction in the absence of substrate and this inhibition has been studied in some detail. A large scale experiment has been conducted to evaluate the possibility of using the reflectance spectrophotometer for measuring semolina and macaroni color. As a result of this work the method of reporting macaroni color has been changed and should now be highly reproducible from year to year. The wheats studied were carlot samples, and opportunity was taken to test and revise the prediction equations previously developed for assisting plant breeders in selecting promising new varieties at early stages of their breeding programs. Finally, the laboratory macaroni equipment has been modified so that mixing may be done in vacuum in line with commercial practice in Europe and in larger plants in Canada. Considerable work has been done in studying the effects of this change, and comparative studies of the old and new techniques will continue for some time.

The malting barley section has continued studies of the effect on malting quality, of barley and malt gums and the enzymes that degrade them. Malt gums differ from barley gums in composition, and it appears that the gum-degrading enzyme systems developed during malting must differ from those present in barley. Additions of enzyme extracts from germinated barley or kilned malt affect both yield and composition of gums extracted from barley. The mechanism of gum degradation by enzymes has been studied kinetically and by examination of reaction products. At least two enzyme systems are involved, but only one of these appears to degrade cell walls and can be classed as cytolytic. Varietal differences in cytolytic activity of green malt have been demonstrated and more extensive studies are in progress. Work has been continued on developing laboratory malting equipment for 12-lb. samples; this is required both for research and for more exhaustive testing of new varieties. A pilot model of a drum type germination chamber was constructed. Experiments with this model yielded a final design for which detailed drawings have been completed; construction will be started shortly.

In the analytical section a more precise method, involving an amperometric titration, was developed for the determination of potassium bromate in flour and dough. The method should have widespread practical application, and is also being employed in research designed to find a chemical explanation of the improving action of potassium bromate in bread doughs. Methods for determining potassium iodate and ammonium persulfate in flours and doughs are now being studied. A micro-method for detecting mercurial fungicides on as few as 10 to 12 kernels of wheat, barley, rye and oats was also developed. Further experiments were undertaken to measure the reduction in the mercury content of treated wheat resulting from scouring and washing. The distribution of remaining mercury among flour, shorts and bran, was also studied. Investigations of the isolation and characterization of "adhesive glutens" from wheat, barley and rye, and of a corresponding protein from oats have been concluded.

GRAIN AND FLOUR MISSION

The writer was a member of the "Canadian Grain and Flour Mission to the Far East" which visited Tokyo, Hong Kong, Manila, Singapore, Djakarta, Colombo, Karachi, New Delhi and Bombay during January and February. The

mission's report has been published elsewhere*; a better understanding of the quality requirements of the various markets was obtained and several minor research projects relating to these matters were initiated during the year. The laboratory was also visited by official missions from Japan, Brazil, Switzerland and Ireland.

STAFF

During the year, two members of the staff obtained the degree of Doctor of Philosophy: Dr. D. K. Cunningham from the University of Minnesota, and Dr. E. J. Bass from the University of Manitoba. Mr. J. R. Cunningham resigned to accept a position with the Defence Research Board and considerable difficulty is being experienced in finding another physicist to carry on his work. Mr. W. Bushuk has been granted leave of absence to start studies for the Ph.D. degree at McGill University.

In accordance with past practice, a detailed report on the work of the Grain Research Laboratory has been prepared for publication to put on record data on the quality of Canadian crops and progress reports on laboratory research.

APPENDIX J

Canadian Government Elevators

A. E. JACOBSON, *General Manager*

In accordance with provisions of section 166 of the Canada Grain Act and Order-in-Council P.C. 1372 of August 19, 1925, the Board manages and operates five interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge, and one terminal elevator at Prince Rupert, and manages one terminal elevator at Port Arthur. The interior and Prince Rupert terminal elevators are operated under public terminal elevator licences, while the Port Arthur elevator has been under lease to McCabe Grain Company Limited continuously since August 1, 1933, with the present lease expiring July 31, 1964.

HANDLINGS

Owing to the large stocks in store at the beginning of the crop year and the general congested storage situation, receipts were approximately one-half of the receipts during the previous crop year. At all elevators except Calgary and Prince Rupert, receipts were mainly wheat. At Calgary, the major portion of receipts were malting barley and at Prince Rupert, receipts were approximately five million bushels of wheat and three million bushels of barley. Receipts and shipments during the 1953-54 crop year at these elevators were as follows:

Elevator	Capacity	Stocks August 1, 1953	Net Receipts	Net Shipments	Stocks July 31, 1954
	million bu.	bu.	bu.	bu.	bu.
Moose Jaw.....	5.50	5,096,022	961,347	583,088	5,467,087
Saskatoon.....	5.50	4,676,173	1,338,504	569,464	5,451,374
Calgary.....	2.50	1,814,190	1,918,791	2,484,100	1,247,150
Edmonton.....	2.35	1,418,376	1,310,805	923,223	1,824,891
Lethbridge.....	1.25	1,071,379	108,349	22,294	1,168,274
Prince Rupert.....	1.25	389,387	8,263,628	8,081,688	577,527
Totals.....	18.35	14,466,427	13,901,424	12,663,857	15,736,303

* Foreign Trade, 101 (10): p. 2-17. June 12, 1954.

CHARGES

A storage charge of one forty-fifth of one cent (1/45c) per bushel per day was in effect at all interior terminal elevators, and one thirty-fifth of one cent (1/35c) at Prince Rupert. The elevation charges at the Prince Rupert elevator were the same as in effect at all other Pacific and Lakehead terminal elevators but at the interior elevators the elevation charges on wheat, oats, barley and corn were lower by one cent (1c) and on rye and flax by one and one-half cents (1 1/2c) per bushel than charges at the Pacific and Lakehead terminals.

MAINTENANCE

All elevators including equipment and trackage have been maintained in good condition. Extensive and necessary repairs and improvements have been made or are in progress. These include new and replacement disc and cylinder cleaning machines at Moose Jaw, Saskatoon and Calgary; repairs to concrete walls at Lethbridge and Prince Rupert; staff buildings and millwright shops at Moose Jaw and Saskatoon; water and sewer connection at Saskatoon, and dust control system at Prince Rupert.

STAFF

The staffs employed as at December 31, 1954, compared with figures for December 31, 1953, were as follows:

	1954		1953	
	Total	Casuals included in totals	Total	Casuals included in totals
Winnipeg (Head Office).....	8	—	8	—
Moose Jaw.....	29	3	28	3
Saskatoon.....	33	7	34	10
Calgary.....	34	4	34	4
Edmonton.....	30	4	31	4
Lethbridge.....	20	1	21	2
Prince Rupert.....	44	20	63	36
	198	39	219	59

REVENUE AND EXPENDITURE

Revenue and expenditure for the fiscal year 1953-54 compared with the previous fiscal year were as follows:

	1953-54	1952-53
Revenue.....	\$1,884,064	\$1,514,295
Expenditure.....	1,104,990	1,070,623
Surplus.....	779,074	443,672

For the first nine months of the current fiscal year revenue was \$1,565,741 and expenditure was \$640,151.

APPENDIX K

Table K-1.—Revenue, by Point and Branch, Fiscal Year ended March 31, 1954

Point and Branch	Fees	Samples Sold	Penalties	Miscellaneous Revenue
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
WINNIPEG—				
Executive.....	—	—	1,500 00	—
License and Bonding.....	29,383 00	—	—	—
Registration.....	38,349 27	—	—	6 34*
Appeal Tribunal.....	1,389 00	—	—	—
Inspection.....	501,897 75	13,735 29	—	3,596 81†
Weighing.....	21,674 87	—	—	—
CHURCHILL—				
Inspection.....	35,656 45	—	—	—
Weighing.....	17,831 67	—	—	—
KEEWATIN—				
Inspection.....	5,594 80	—	—	—
Weighing.....	6,780 05	—	—	—
SASKATOON—				
Inspection.....	23,048 02	965 70	—	—
Weighing.....	15,597 14	—	—	—
MOOSE JAW—				
Inspection.....	9,396 98	331 34	—	—
Weighing.....	4,752 73	—	—	—
MEDICINE HAT—				
Inspection.....	9,151 30	491 11	—	—
Weighing.....	10,228 95	—	—	—
LETHBRIDGE—				
Inspection.....	789 75	112 43	—	—
Weighing.....	303 87	—	—	—
CALGARY—				
Inspection.....	107,263 79	2,701 19	—	353 00
Weighing.....	17,196 11	—	—	—
Appeal Tribunal.....	1,140 00	—	—	—
EDMONTON—				
Inspection.....	107,681 86	2,552 50	—	460 00
Weighing.....	3,968 73	—	—	—
Appeal Tribunal.....	1,179 00	—	—	—
VANCOUVER—				
Inspection.....	266,535 80	10,645 84	—	—
Weighing.....	217,543 63	—	—	—
Registration.....	11,812 44	—	—	—
FORT WILLIAM—				
Inspection.....	928,808 15	16,710 26	—	121 35
Weighing.....	710,266 89	—	—	12 00
TORONTO—				
Inspection.....	6,421 71	103 50	—	—
MONTREAL—				
Inspection.....	9,979 24	480 72	—	15 91*
Inspection fees refunded.....	Cr. 878 93	—	—	—
Registration.....	11,239 14	—	—	—
CHATHAM—				
Inspection.....	74,853 41	1,309 94	—	88 54
PRINCE RUPERT—				
Inspection.....	22,037 14	481 79	—	—
Weighing.....	16,876 19	—	—	—
VICTORIA—				
Inspection.....	8,863 74	118 32	—	—
Weighing.....	6,671 02	—	—	—

* Refund of previous year's expenditure.

† Includes \$18.06 refund of previous year's expenditure.

Table K-2.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year ended March 31, 1954

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Printing Stationery
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
WINNIPEG—					
Executive.....	87,818 73	8,195 48	6,693 23	34,679 49	10,677 08
Assistant Commissioner.....	1,805 09	831 00	286 35	132 00	1 15
License and Bonding.....	22,294 93	2,010 00	—	450 69	2,127 04
Registration.....	30,963 60	2,785 20	472 05	907 39	599 84
Research Laboratory.....	122,510 48	16,624 80	2,869 45	25,997 54	3,960 92
Statistics.....	65,718 54	5,085 44	3,674 71	11,967 46	6,613 16
Appeal Tribunal.....	5,540 00	584 40	—	1,083 18	1 32
Standards Committees.....	—	—	3,144 50	2,230 00	—
Inspection.....	565,442 47	25,848 40	2,150 27	30,935 54	10,929 99
Weighing.....	49,060 06	2,077 20	321 96	992 30	376 74
CHURCHILL—					
Inspection.....	12,484 26	—	5,376 61	55 38	—
Weighing.....	6,052 52	—	3,137 65	26 38	—
KEEWATIN—					
Inspection.....	5,706 56	—	—	—	67 96
Weighing.....	7,456 64	—	—	58 57	—
SASKATOON—					
Assistant Commissioner.....	11,139 09	—	2,862 08	612 79	33 05
Inspection.....	32,310 51	877 00	—	611 28	381 53
Weighing.....	20,561 29	—	1,017 66	12 00	—
MOOSE JAW—					
Inspection.....	29,331 35	1,296 00	—	804 72	220 10
Weighing.....	15,851 60	—	—	12 80	—
MEDICINE HAT—					
Inspection.....	9,658 21	841 00	—	141 14	158 60
Weighing.....	10,735 74	—	—	—	—
LETHBRIDGE—					
Inspection.....	9,438 21	—	—	40 00	86 10
Weighing.....	6,239 13	—	212 12	8 00	—
CALGARY—					
Assistant Commissioner.....	11,366 60	828 00	3,404 39	488 13	25 06
Inspection.....	81,644 23	3,001 00	—	3,161 80	1,591 53
Weighing.....	36,258 50	314 04	23 35	285 98	—
Appeal Tribunal.....	5,540 00	420 00	—	992 34	36
EDMONTON—					
Inspection.....	98,774 14	8,754 00	1,088 59	3,715 67	1,669 80
Weighing.....	11,710 34	—	—	152 91	—
Appeal Tribunal.....	6,380 00	1,170 00	—	998 23	1 56
VANCOUVER—					
Inspection.....	151,887 61	6,965 40	1,074 43	5,405 24	1,886 39
Weighing.....	160,251 48	2,675 40	334 64	2,331 12	1,087 65
Registration.....	8,691 56	1,795 20	—	362 59	83 86
FORT WILLIAM—					
Inspection.....	684,796 22	17,872 00	6,698 23	15,915 76	8,054 89
Weighing.....	500,428 15	4,461 00	30,243 23	5,596 56	5,233 27
TORONTO—					
Inspection.....	9,316 56	1,200 00	—	453 00	87 86
MONTREAL—					
Inspection.....	88,601 93	4,296 00	8,777 66	1,824 32	555 17
Weighing.....	4,040 00	939 36	75 90	275 59	257 82
Registration.....	11,689 86	1,064 64	—	373 28	141 16
CHATHAM—					
Inspection.....	36,126 42	1,140 00	17,238 27	2,227 83	299 30

Table K-4.—Revenue and Expenditure, by Points and Branches, Fiscal Year ended March 31, 1954

	Inspection		Weighing		Appeal Tribunals		Registra- tion		Licence and Bonding		Statistics		Research Laboratory		Grain Standards Committee		Adminis- tration		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
REVENUE																				
Winnipeg.....	519,229	85	21,674	87	1,389	00	38,355	61	29,383	00	—	—	—	—	—	—	1,500	00	611,532	33
Churchill.....	35,656	45	17,831	67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53,488	12
Keewatin.....	5,594	80	6,780	05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12,374	85
Saskatoon.....	24,013	72	15,597	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39,610	86
Moose Jaw.....	9,728	32	4,752	73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,481	05
Medicine Hat.....	9,642	41	10,228	95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19,871	36
Lethbridge.....	9,902	18	10,303	87	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,206	05
Calgary.....	110,317	98	17,196	11	1,140	00	—	—	—	—	—	—	—	—	—	—	—	—	128,654	09
Edmonton.....	110,694	36	3,968	73	1,179	00	—	—	—	—	—	—	—	—	—	—	—	—	115,842	09
Vancouver.....	277,181	64	217,543	63	—	—	11,812	44	—	—	—	—	—	—	—	—	—	—	506,537	71
Fort William.....	945,639	76	710,278	89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,655,918	65
Toronto.....	6,525	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,525	21
Montreal.....	9,596	94	—	—	—	—	11,239	14	—	—	—	—	—	—	—	—	—	—	20,836	08
Chatham.....	76,251	89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	76,251	89
Prince Rupert.....	22,518	93	16,876	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39,395	12
Victoria.....	8,982	06	6,671	02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15,653	08
Totals.....	2,172,476	50	1,049,703	85	3,708	00	61,407	19	29,383	00	—	—	—	—	—	—	1,500	00	3,318,178	54

Table K-4.—Revenue and Expenditure, by Points and Branches, Fiscal Year ended March 31, 1954.—Concluded

	Inspection		Weighing		Appeal Tribunals		Registra- tion		Licence and Bonding		Statistics		Research Laboratory		Grain Standards Committee		Adminis- tration		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
EXPENDITURE																				
Winnipeg.....	635,306	67	52,828	26	7,208	90	35,728	08	26,882	66	93,059	31	171,963	19	5,374	50	151,119	60	1,179,471	17
Churchill.....	17,916	25	9,216	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27,132	80
Keewatin.....	5,774	52	7,515	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13,289	73
Saskatoon.....	34,180	32	21,590	95	—	—	—	—	—	—	—	—	—	—	—	—	14,647	01	70,418	28
Moose Jaw.....	31,652	17	15,864	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47,516	57
Medicine Hat.....	10,798	95	10,735	74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,534	69
Lethbridge.....	9,564	31	6,439	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16,023	56
Calgary.....	89,398	56	36,881	87	6,952	70	—	—	—	—	—	—	—	—	—	—	16,112	18	149,345	31
Edmonton.....	114,002	20	11,863	25	8,549	79	—	—	—	—	—	—	—	—	—	—	—	—	134,415	24
Vancouver.....	167,219	07	166,680	29	—	—	10,933	21	—	—	—	—	—	—	—	—	—	—	344,832	57
Fort William.....	733,337	10	545,962	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,279,299	31
Toronto.....	11,057	42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11,057	42
Montreal.....	104,055	08	5,588	67	—	—	13,268	94	—	—	—	—	—	—	—	—	—	—	122,912	69
Chatham.....	57,031	82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57,031	82
Prince Rupert.....	9,481	01	9,873	46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19,354	47
Victoria.....	6,979	14	5,479	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12,458	33
Totals.....	2,037,754	59	906,539	30	22,711	39	59,930	23	26,882	66	93,059	31	171,963	19	5,374	50	181,878	79	3,506,093	96

Total Revenue.....	\$3,318,178 54
Total Expenditure.....	3,506,093 96
Net Deficit.....	187,915 42

APPENDIX L**Regulations**

Regulations in effect December 31, 1954, made in accordance
with the provisions of the Canada Grain Act

Regulation
No.

- 1 Registration and Cancellation of Terminal Elevator Warehouse Receipts.
- 2 Registration and Cancellation of Eastern Warehouse Receipts and Transfer Receipts.
- 3 Construction of Elevators.
- 4 Cleaning Grain and Bins, Terminal Elevators.
- 5 Off Grades for Western Grain.
- 6 Off Grades for Eastern Grain.
- 7 Grades of Screenings.
- 8 Inspection of Samples taken other than at an Inspection Point.
- 9 Appeals from Inspecting Officers to Grain Appeal Tribunals.
- 10 Delivery of Grain to Ocean Vessels at Montreal, Quebec.
- 11 Delivery of Grain to Ocean Vessels at West Saint John, N.B.
- 12 Delivery of Grain to Ocean Vessels at East Saint John, N.B.
- 13 Delivery of Grain to Ocean Vessels at Halifax, N.S.
- 14 Enforcement of Lien by Sale of Grain.
- 15 Drying of Grain.
- 16 Fees.
- 17 Records, Reports and Returns.
- 18 Procedure, Country Elevators.
- 19 Receipt for Grain Delivered to Private Country Elevators and Mill Elevators.
- 20 Maximum Tariff of Charges, Eastern Elevators.
- 21 Maximum Tariff of Charges and Shrinkage Allowance, Country Elevators.
- 22 Maximum Tariff of Charges, Terminal Elevators.
- 23 Applications for Licences and Terms and Conditions under which Licences are Issued.
- 24 Storage in Transit of Grain Grown Outside Canada.
- 25 Tickets and Receipts—Country Elevators.
- 26 Delivery of Treated Grain to Elevators.

APPENDIX M**List of Board Publications****GENERAL**

BOARD OF GRAIN COMMISSIONERS FOR CANADA REPORT FOR 1953. 82 p.
Available from Queen's Printer, Ottawa. Price, 50 cents.

HANDBOOK ON THE SALE AND HANDLING OF GRAIN THROUGH A COUNTRY
ELEVATOR (1949). 82 p. Available from Board of Grain Commissioners
for Canada, Winnipeg. No charge.

- THE FARMER AND THE COUNTRY ELEVATOR (1953). Offset. 24 p. Available from Board of Grain Commissioners for Canada, Winnipeg. No charge.
- GRAIN ELEVATORS IN CANADA (1954). Offset. 232 p. Available from Queen's Printer, Ottawa. Price, 50 cents.
- REGULATIONS OF THE BOARD OF GRAIN COMMISSIONERS FOR CANADA—SOR/54-348. (Reprint from the Canada Gazette Part II of Wednesday, August 25, 1954.) 52 p. Available from Queen's Printer, Ottawa.

LABORATORY PUBLICATIONS

- (Available from Grain Research Laboratory, Board of Grain Commissioners for Canada, Winnipeg. No charge).
- GRAIN RESEARCH LABORATORY, 1953 REPORT (1954) Offset. 78 p.
- GRAIN RESEARCH LABORATORY, 1954 REPORT (in press).
- MAP OF WESTERN CANADA SHOWING THE PROTEIN CONTENT OF HARD RED SPRING WHEAT, 1954 PRELIMINARY MAP, October 6, 1954. Offset. 2 colour, 11 x 21 inches.
- MAP OF WESTERN CANADA SHOWING THE PROTEIN CONTENT OF HARD RED SPRING WHEAT, 1954 FINAL MAP. Offset. 2 colour, 11 x 21 inches.
- CANADIAN WHEAT, 1954, CROP BULLETIN No. 53. Offset. 16 p.
- PROTEIN SURVEY OF WHEAT, 1954, CROP BULLETIN No. 54. Offset. 34 p.
- CANADIAN BARLEY, 1954, CROP BULLETIN No. 55. Offset. 28 p.
- CANADIAN FLAX, 1954, CROP BULLETIN No. 56. Offset. 20 p.

STATISTICS BRANCH

- (Available from Statistics Branch, Board of Grain Commissioners for Canada, Winnipeg. No charge).
- DAILY LAKEHEAD TRAFFIC REPORT—451·9. Mimeographed. 2 p.
- CANADIAN GRAIN POSITION BULLETIN—420·3. Weekly. Mimeographed. 16 p.
- WEEKLY GRAIN STATISTICS FORT WILLIAM—PORT ARTHUR ELEVATORS—451·6. Mimeographed. 1 p.
- LAKEHEAD VESSEL LOAD—451·111. Weekly during lake shipping season. Mimeographed. 2 p.
- CANADIAN GRAIN EXPORTS—431·5. Monthly. Mimeographed. 6 p.
- LAKEHEAD CAR REPORT—451·82. Monthly, also annual statement. Mimeographed. 1 p.
- MONTHLY FREIGHT RATES—752·2. Monthly during lake shipping season, also annual statement. Mimeographed. 1 p.
- VESSEL UNLOAD REPORT (2 parts)—451·10 and 451·101. Crop year and lake shipping season. Mimeographed. 4 p.
- WINTER STORAGE—422. Annual, at close of shipping season. Mimeographed. 6 p.
- CANADIAN GRAIN EXPORTS, Crop Year 1953-54. Offset. 32 p.
- GRAIN TRADE OF CANADA, 1952-53. Offset. 118 p. Published jointly by Dominion Bureau of Statistics and Board of Grain Commissioners for Canada. Available from Queen's Printer, Ottawa. Price, \$1.00.

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Board of Grain Commissioners FOR CANADA

DEPARTMENT OF TRADE AND COMMERCE

Rt. Hon. C.D. Howe M.P. Minister, Wm. Frederick Bull, Deputy Minister

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ANNUAL REPORT
for
1955



CANADA

DEPARTMENT OF TRADE AND COMMERCE
OTTAWA, CANADA

Minister:
RT. HON. C. D. HOWE, M.P.

Deputy Minister:
WM. FREDERICK BULL

EDMOND CLOUTIER, C.M.G., O.A., D.S.P.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1956

Price, 50 cents.

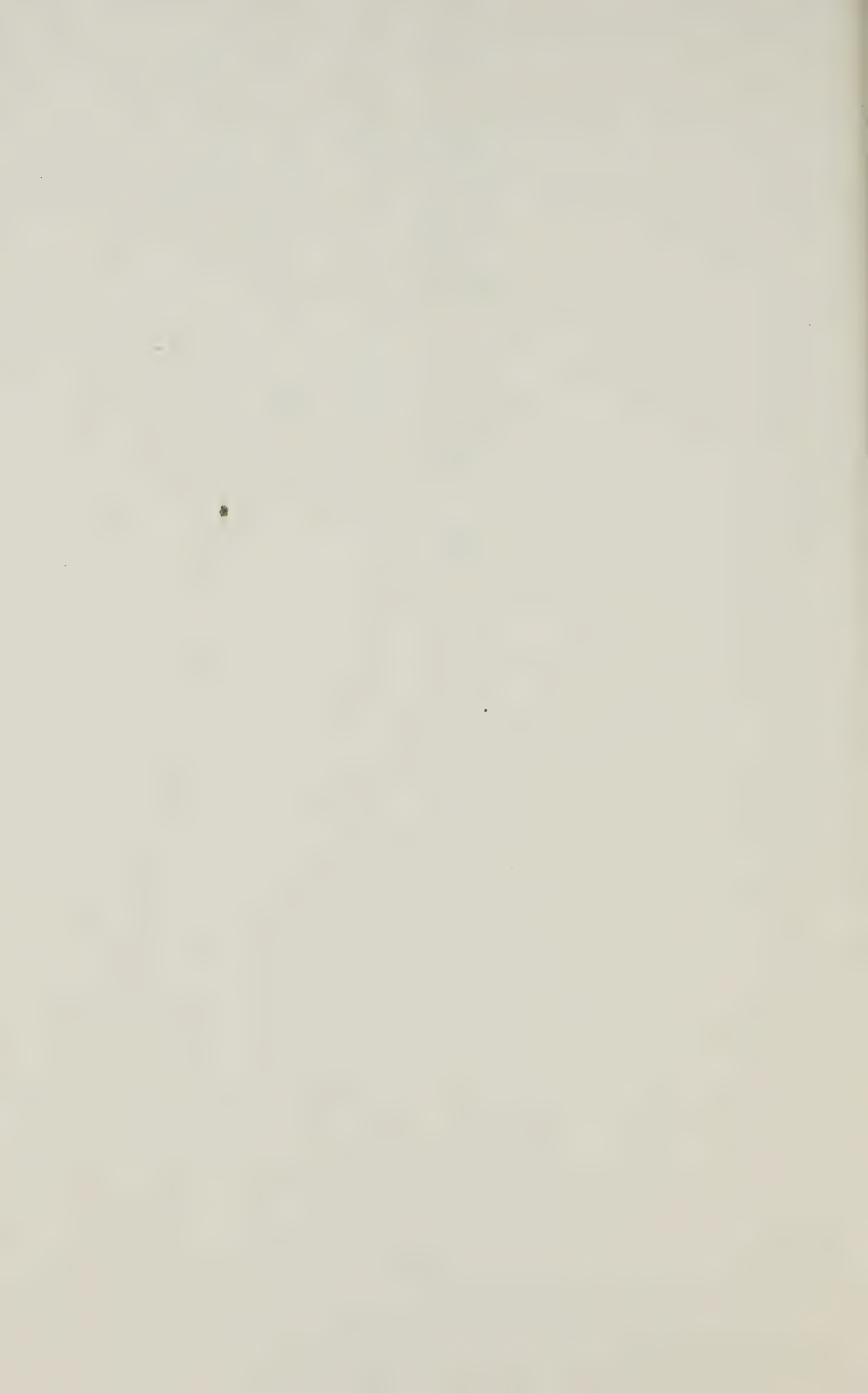


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WINNIPEG, Manitoba,
January 16, 1956.

THE RIGHT HONOURABLE C. D. HOWE, M.P.,
Minister of Trade and Commerce,
Ottawa, Canada.

SIR,—We beg to submit herewith Report of the Board of Grain Commissioners for Canada for the year 1955 in compliance with section 23 of the Canada Grain Act.

This report records information and statistics relating to grain handlings for the crop year August 1, 1954 to July 31, 1955, expenditures and revenue for the fiscal year April 1, 1954 to March 31, 1955 and summarizes the major activities of the Board for the 1955 calendar year.

Grain Supplies and Disposition—Crop Year 1954-55

A record volume of grain comprised of 895.2 million bushels of wheat, oats, barley, rye and flaxseed was carried into the 1954-55 crop season in licensed storage, in transit and in farm bins, both east and west. Sharply reduced Canadian grain crops in 1954 added 308.9 million bushels of wheat, 306.8 million bushels of oats, 175.5 millions of barley, 14.2 million bushels of rye, and 11.2 million bushels of flaxseed to this carryover for a total of 1,711.8 million bushels of these five principal grains available for the year's requirements for domestic use and export.

Marketings

Canadian farmers delivered 528.6 million bushels of this grain to the licensed elevator system during 1954-55—a reduction of 87.8 millions from the final marketing total established for the previous year. Western farmers delivered 519.5 millions to country elevators, supplied a further 4.7 millions to interior, private and mill elevators and shipped .3 millions over loading platforms. Only 4.1 millions of eastern grain moved from eastern farms into the licensed system compared with average marketings of 6.3 millions over the past five years.

Terminal and Eastern Elevator Handlings

The flow of grain forward from the prairies into terminal positions declined further in 1954-55, though at a less pronounced rate than during the previous season. Fort William-Port Arthur elevators unloaded 176,281 cars for total receipts of 324.8 million bushels of the five principal grains compared with 360.5 million bushels in 1953-54. Lake shipments of 309.6 million bushels during the crop year were down from the 327.6 millions moved down the lakes during the previous season. This reduction was more than accounted for by reduced shipments to United States ports, 37.0 millions against 108.0 millions during 1953-54.

Handlings at Pacific Coast terminals dropped sharply from the record level established in 1953-54 (139.9 millions) when these ports accounted for over fifty per cent of Canada's overseas grain clearances. West coast elevators reported receipts of 101.7 million bushels, made up of 81.9 millions of wheat, 4.1 millions of oats, 15.4 millions of barley and .3 millions of flaxseed. During the 1954 shipping season 12.2 million bushels of wheat were shipped from Churchill, compared with 11 million in the previous year. In 1955, a further increase was recorded with shipments of 13 1 millions.

TRADE AND COMMERCE

Exports

Canada's exports of the five major grains, together with wheat flour and milled oats totalled 366.8 million bushels for the 1954-55 season. Over the period August 1, 1954 to July 31, 1955, Canadian exporters moved into world trade channels 251.8 million bushels of wheat and wheat flour, 22.2 million bushels of oats and milled oats, 77.1 million bushels of barley, 9.3 millions of rye and 6.4 million bushels of flaxseed. Canadian clearances accounted for slightly over 26 per cent of the international movement of the two bread grains, wheat and rye, and 20.8 per cent of the world trade in coarse grains. These exports represented a drop of 71.1 million bushels in total from Canadian exports of the previous season. An increase of 15.5 millions in shipments to overseas markets only partially compensated for the decline in the movement of Canadian oats, barley and rye into United States domestic markets. United States imports of Canadian oats dropped from 65.9 millions to 14.8 millions, of Canadian barley, from 36.9 millions to 19.0 millions, and of Canadian rye from 16.3 millions in 1953-54, to only 1.8 millions in the 1954-55 season. The United Kingdom was Canada's principal grain market in 1954-55 accounting for 154.2 millions or over 42 per cent of our total grain and flour exports for the year.

Domestic

Domestic needs for human consumption, industrial use and for feed and seed absorbed an estimated 651.0 million bushels of the five major grains. Approximately 155 million bushels of this domestic grain were supplied through the elevator system; the remainder was used direct on the farms without passing through a licensed elevator. The combined disappearance for domestic and export accounted for 1,017.8 million bushels compared with 1,082.7 millions in 1953-54.

Carry-Over

The carry-over of 694.0 million bushels remaining in all positions at July 31, 1955, was substantially below the record quantity of grain on hand at the close of the previous crop season. Stocks of Canadian grain in farmers' bins (estimated by the Dominion Bureau of Statistics) in licensed storage and in transit between North American positions included 499.0 million bushels of wheat, 83.9 millions of oats, 91.4 millions of barley, 18.5 millions of rye and 1.2 millions of flaxseed, reflecting reduced holdings of all grains as well as in total.

Licensing and Bonding

On July 31, 1955, total licensed storage capacity was 586,236,910 bushels including 6,252,850 bushels in supplementary off-track annexes to country elevators, covered by 5,488 country, terminal, mill and eastern elevator licences, an increase of 12,261,102 bushels capacity and 12 licences over the previous year. Country elevator capacity including supplementary annexes accounted for most of this increase in the amount of 11,990,112 bushels.

Assistant Commissioners

By an amendment to section 5 of the Canada Grain Act, assented to March 31, 1955, provision was made for the appointment of an additional Assistant Commissioner for the Province of Saskatchewan.

Mr. Joseph I. Hetland was appointed to this position effective April 30, 1955. He has jurisdiction over the northern half of the province with headquarters at Saskatoon. Assistant Commissioner Allan G. McLean has jurisdiction over the southern half of the province with headquarters at Regina.

BOARD OF GRAIN COMMISSIONERS

During 1955 Assistant Commissioners inspected 515 elevators in Manitoba, 1,515 in Saskatchewan and 1,174 in Alberta. These officials were also extensively engaged in inspecting off-trackage premises which licensees of country elevators applied to use as emergency grain storage.

Complaints investigated totalled 54—including 6 carried forward from 1954—as compared with 91 in the previous year. Five originated in Manitoba, forty-one in Saskatchewan, and eight in Alberta.

Disposition of complaints investigated was as follows:

	Manitoba	Saskatchewan	Alberta	Total
No grounds for complaint	1	16	1	18
Settlement effected	1	10	3	14
Outside jurisdiction of Board	—	—	1	1
Licensee fined or penalty applied	1	3	1	5
Licensee warned	2	2	1	5
Complaint withdrawn	—	3	1	4
Not yet disposed of	—	7	—	7
Totals	5	41	8	54

The Assistant Commissioners, in addition to inspecting elevators and investigating complaints, handled numerous inquiries respecting car supply, car order book and the general operation of country elevators. They also continued the practice of discussing with country elevator agents the problems of excessive overages.

Prosecutions

Nineteen penalties for breaches of the Board's Regulations and Orders made under the Canada Grain Act amounting to \$16,335.00, were levied and collected as follows:

Number of Penalties	Contravention	Amount
11	Board Order dated December 17, 1954, under section 68, Canada Grain Act	\$15,110.00
1	Board Regulation No. 21, Section 6	400.00
7	Board Regulation No. 18, Section 6	825.00

Shortages and Overages, Country Elevators

During the crop year 1954-55, owing to the congested storage situation, only 1,257 out of a total of 5,377 licensed country elevators were weighed over. An analysis of the results disclosed by these audits is given in the following table:

ELEVATORS REPORTING	1954-55	1953-54
Shortages	414	356
Neither overages nor shortages	7	6
Overages of less than .25%	563	420
Overages of .25% to .50%	198	195
Overages over .50%	75	110
Total elevators weighed over	1,257	1,087

TRADE AND COMMERCE

Hearings were held by the Board during 1955 at Winnipeg, Saskatoon, Regina, Calgary and Edmonton, at which 118 country elevator agents with unsatisfactory records as disclosed in the returns for the crop year 1953-54, were examined as to the details of their operations which resulted in the accumulation of excessive overages. The superintendents and management officials of the licensees were also required to attend these hearings to give explanations concerning accumulation of overages.

Cars Out of Turn

Under the provisions of sub-section (2) of section 68 of the Canada Grain Act, the Board authorized 2,763 cars out of turn to move seed, fumigated and out-of-condition grain, and to move or reduce stocks in country elevators and annexes flooded or in danger of collapse, as follows:

PURPOSE	1955	1954
Grain Out of Condition.....	504	555
Elevators and Annexes in Danger of Collapse.....	1,759	1,013
Elevators and Annexes Flooded.....	372	136
Seed Grain.....	14	5
Grain Fumigated for Rusty Grain Beetle Infestation.....	59	104
Others.....	55	14
Totals.....	2,763	1,827

Regulations and Orders

During the year one new regulation was made by the Board, No. 27, providing that grain in country elevators infested with Rusty Red Grain Beetle, or other like insects, be fumigated before shipment, and specifying the procedure to be followed in shipping this grain after fumigation.

Minor amendments were made to existing regulations as follows:

- Regulation No. 15—May 25, 1955—to provide that the maximum temperature of 110° Fahrenheit, at which certain of the top grades of barley shall be dried, be also made applicable to the grades of Tough and Damp 4 C.W. Six Row and Tough and Damp 3 C.W. Two Row Barley.
- Regulation No. 7—August 1, 1955—revising the definition for the grade of No. 1 Feed Screenings to provide that the minimum content of broken and shrunken grain in this grade shall be thirty-five per cent.
- Regulation No. 18—August 1, 1955—revising the form of Country Elevator Cleaning Receipt in the Schedule to this regulation.
- Regulation No. 20—August 1, 1955—increasing the maximum additional charge for delivery of grain to trucks at eastern elevators at Montreal, Quebec, Sorel and Three Rivers from three-quarters of one cent to one and one-quarter cents per bushel.
- Regulation No. 22—August 1, 1955—reducing from three per cent to two and one-half per cent the amount of flax in “clean till clean” cars of wheat, oats, barley and rye for which separate returns are required to be made to the shipper by terminal elevator operators, and also providing that separate returns be made on such cars containing three per cent or more of flax and broken grain.

BOARD OF GRAIN COMMISSIONERS

By Order No. 1—1955-56, dated September 30, 1955, the Board suspended until further notice but not beyond July 31, 1956, the provision in the Board's Regulation No. 23 that all grain received for storage at any licensed country elevator shall be stored in the building or buildings described in the application for licence, and not otherwise.

This suspension arose out of existing congestion of storage facilities and the need to provide in case of emergency, space to turn stored grain to prevent deterioration or to make repairs to licensed buildings, but the order provides that the grain shall be re-stored in the elevator buildings immediately the emergency situation has been rectified.

By Order No. 2—1955-56—dated October 19, 1955, the Board prohibited the unloading at licensed eastern elevators of grain from lake vessels loaded at the Lakehead during the summer months for storage, without special permission from the Chief Grain Inspector. This action was taken to ensure that all such grain was checked for insect infestation before unloading.

Committees on Grain Standards

Committees on Western and Eastern Grain Standards for the crop year 1955-56 were constituted by the Board in accordance with the provisions of section 25 of the Canada Grain Act. Personnel of these Committees is given in Appendix A.

The Western Committee was convened in Winnipeg on October 12, 1955 and on November 9, 1955, and selected and settled standard samples of the following statutory grades of Western grain:

RED SPRING WHEAT

No. 1 Manitoba Hard
No. 1 Manitoba Northern
No. 2 Manitoba Northern
No. 3 Manitoba Northern
No. 4 Manitoba Northern
No. 1 Canada Western Garnet
No. 2 Canada Western Garnet
No. 3 Canada Western Garnet

BARLEY

No. 1 Canada Western Six Row
No. 2 Canada Western Six Row
No. 3 Canada Western Six Row
No. 1 Canada Western Two Row
No. 2 Canada Western Two Row
No. 1 Feed
No. 2 Feed

FLAXSEED

No. 1 Canada Western
No. 2 Canada Western
No. 3 Canada Western

AMBER DURUM WHEAT

No. 1 Canada Western
No. 2 Canada Western
No. 3 Canada Western

WINTER WHEAT

No. 1 Alberta Red
No. 2 Alberta Winter
No. 3 Alberta Winter

OATS

No. 1 Canada Western
No. 2 Canada Western
No. Extra 3 Canada Western
No. 3 Canada Western
No. Extra 1 Feed
No. 1 Feed
No. 2 Feed

RYE

No. 1 Canada Western
No. 2 Canada Western
No. 3 Canada Western

This Committee also named, defined and selected and settled standard samples for the following commercial grades:

RED SPRING WHEAT

No. 5 Wheat
No. 6 Wheat

BARLEY

No. 4 Canada Western Six Row
No. 3 Canada Western Two Row
No. Extra 2 Feed

TRADE AND COMMERCE

AMBER DURUM WHEAT

No. Extra 4 Canada Western

and selected and settled standard export samples for the grades of No. 1 Manitoba Hard, Nos. 1, 2, 3 and 4 Manitoba Northern, Nos. 1, 2 and 3 Canada Western Garnet, No. 5 Wheat, and Nos. 1, 2 and 3 Canada Western and No. Extra 4 Amber Durum. In accordance with the provisions of sub-section 4 of section 27 of the Canada Grain Act, the Committee authorized the use of the last standard samples for other grades of Western grain not selected by the Committee at these meetings owing to suitable samples not being available.

The Eastern Committee was convened in Toronto on August 22, 1955 and November 16, 1955, and selected and settled standard samples of the following statutory grades of Eastern grain:

WHEAT

No. 1 Canada Eastern White Winter
No. 2 Canada Eastern White Winter
No. 3 Canada Eastern White Winter
No. 4 Canada Eastern White Winter

No. 1 Canada Eastern Mixed Winter
No. 2 Canada Eastern Mixed Winter
No. 3 Canada Eastern Mixed Winter
No. 4 Canada Eastern Mixed Winter

BARLEY

No. 1 Canada Eastern Six Row
No. 2 Canada Eastern Six Row
No. 3 Canada Eastern Six Row
No. 4 Canada Eastern

SOYBEANS

No. 1 Canada Yellow Soybeans
No. 2 Canada Yellow Soybeans
No. 3 Canada Yellow Soybeans
No. 4 Canada Yellow Soybeans
No. 5 Canada Yellow Soybeans

CORN

No. 1 Canada Eastern Yellow
No. 2 Canada Eastern Yellow

OATS

No. 1 Canada Eastern White
No. 2 Canada Eastern White
No. 3 Canada Eastern
No. 4 Canada Eastern

RYE

No. 1 Canada Eastern
No. 2 Canada Eastern
No. 3 Canada Eastern
No. 4 Canada Eastern

BUCKWHEAT

No. 1 Canada Eastern
No. 2 Canada Eastern
No. 3 Canada Eastern

BEANS

Extra No. 1 Canada Eastern Pea Beans
No. 1 Canada Eastern Pea Beans
No. 2 Canada Eastern Pea Beans
No. 3 Canada Eastern Pea Beans
No. 4 Canada Eastern Pea Beans

FLAXSEED

No. 1 Canada Eastern

This Committee authorized the use of the last standard samples for other statutory grades of Eastern grain not selected by the Committee at these meetings owing to suitable samples not being available.

Inspection of Grain

Inspections of the 1954 Western crops showed that the three prairie provinces harvested the poorest crops of Red Spring Wheat and Amber Durum Wheat for a number of years owing to widespread rust infestation. Coarse grain crops were also below average quality. Unfavourable weather conditions in the early part of October delayed harvesting and also tended to reduce the quality of the crops.

Primary inspections of Western grain in the crop year ended July 31, 1955, totalled 278,338 carlots, or about four per cent less than the average for the past

BOARD OF GRAIN COMMISSIONERS

ten years. Primary inspections of Eastern grain totalled 10,954 carlots as compared with 13,774 carlots in the previous year.

By amendment to Schedules One and Two of the Canada Grain Act assented to on March 31, 1955, the statutory specifications for the grades of No. 3 Canada Western and No. 3 Canada Eastern Amber Durum Wheat were changed, effective August 1, 1955, to provide that, to qualify for these grades, Amber Durum must be of the Mindum variety or of a variety equal to Mindum. Revised specifications for the grades of Soybeans, both in the Western and Eastern Divisions, were also made effective August 1, 1955.

The Committee on Western Grain Standards established for the crop year 1955-56 additional commercial grades of Extra No. 4 Canada Western Amber Durum and Extra No. 2 Feed Barley.

Inspections to date of the 1955 crop indicate that this crop is above average quality and weight per bushel. The principal degrading factors are midge damage, glume blotch, frost and immaturity in wheat, aphid damage and frost in barley, and frost in oats.

Grain Research Laboratory

The Board's Grain Research Laboratory has continued to provide the necessary scientific service for evaluating the quality of the different grains which is essential for the preparation of grain standards and the application of Canada's grading system. Crop bulletins and protein maps to publicize the quality of Canadian crops have been given wide distribution. Special services have been provided for the Canadian Wheat Board and the Laboratory has continued to co-operate with other scientific institutions and committees interested in the evaluation of quality in grain. Research seeking better understanding of factors affecting quality in spring wheat, durum wheat and malting barley is being actively pursued.

A summary of the work of the Laboratory is given in Appendix H to this report and detailed information will be available in the Annual Report of the Laboratory to be published separately.

Weighing of Grain

All grain received at or shipped from licensed terminal elevators was weighed by the Board's weighing staff in accordance with sections 33 and 124 of the Canada Grain Act, and the same service was provided at licensed mill elevators on request. Officers of the Weighing Branch also inspected scales and equipment, and investigated outturn shortages on vessel shipments. Details of the work of this Branch are given in Appendix F.

Weighover of Stocks, Terminal and Eastern Elevators

In accordance with the provisions of section 139 and 140 of the Canada Grain Act, 30 terminal and 27 eastern elevators were weighed over during the 1954-55 crop year. Due to the large volume of grain in store, the Board deferred weighovers into the current crop year at three of the Canadian Government Elevators, nine terminal elevators at the Lakehead, five terminal elevators on the Pacific Coast, and two eastern elevators. Twelve of these nineteen deferred weighovers were carried out before the end of the calendar year 1955.

Results of the 57 weighovers carried out in the crop year 1954-55 are given in Tables G.12 to G.16 of Appendix G. At one eastern elevator the weighover disclosed certain overages in respect of which the licensee was required to make settlement to the Canadian Wheat Board in the amount of \$551.63.

TRADE AND COMMERCE

Terminal and Eastern Complaints

Forty-two complaints in connection with the handling of grain at terminal elevators and the shipment of grain to Eastern Canada, were investigated by the Board during 1955 compared with twenty-three in the previous year. Forty-one of the complaints were in respect of the unload weights of grain shipped from Lakehead terminal elevators to licensed eastern elevators while the other complaint was in respect of the quality of a parcel of sacked grain shipped from Western Canada to a poultry farm in Ontario.

These complaints were disposed of as follows:

	Quality	Quantity
No cause of reported discrepancy found.....	—	33
No grounds for complaint.....	1	—
Settlement effected.....	—	5
Not yet disposed of.....	—	3
Totals.....	1	41

Complaints on Export Shipments

Thirty-two complaints in respect of the quality or weight of overseas shipments were received during the year 1955. Four complaints received in 1954 were brought forward making a total of thirty-six overseas complaints investigated in the year as compared with thirty-one in 1954. Disposition of these complaints was as follows:

	Quality	Quantity
No cause of reported discrepancy found.....	—	22
Insufficient evidence to fix liability.....	1	—
No grounds for complaint.....	5	—
Settlement effected.....	2	2
Complaint withdrawn.....	—	1
Not yet disposed of.....	—	3
Totals.....	8	28

Statistics

Statistics relating to Canadian grain movement collected and compiled by the Board's Statistics Branch and other work of this Branch, are presented in Appendix G of this report.

Information Program

During the summer of 1955 the exhibit outlining the functions of the Board was displayed at Carman and Altona in Manitoba, at Estevan, Weyburn and Melfort in Saskatchewan, and at Grande Prairie in the Peace River District of Alberta. Showings of the Board's film were made in conjunction with the exhibit and this undoubtedly increased the effectiveness of the exhibit in placing before farmers and the general public details of the handling of grain under the provisions of the Canada Grain Act. The Board's film has also been made available for showing at a number of country meetings.

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The Board and its senior officials, in co-operation with the Canadian Wheat Board, demonstrated to members of official missions and delegations from Australia, Bolivia, Chile, Ecuador, Germany, Japan, Peru, the United Kingdom, the U.S.S.R. and Venezuela, the functions of the Board in the handling of grain. The Board also arranged a training program in grain handling procedures for a party of officials from India and Pakistan under the Colombo Plan. The Assistant Chief Grain Inspector, Mr. M. J. Conacher, visited Japan for discussions with officials of the Japanese Food Ministry on procedures followed in the inspection of Canadian grain.

Members of the Board and senior officials addressed the annual meetings of producer organizations and meetings of other organizations in Western Canada.

Canadian Government Elevators

Receipts of grain during the crop year 1954-55 at the Canadian Government Terminal Elevators operated by the Board at Moose Jaw, Saskatoon, Edmonton, Calgary, Lethbridge and Prince Rupert were only 10.2 million bushels and shipments 10.4 million bushels, as compared with 13.9 million and 12.6 million bushels in the previous crop year. From an operating standpoint, however, the 1954-55 crop year was another satisfactory year as the elevators were used to approximately eighty-five per cent capacity throughout the year. In the fiscal year 1954-55, revenues exceeded expenditures by \$682,698.

Progress has been made during the year on the program of improvement and repairs to buildings and replacement and reconditioning of the equipment at these elevators, which could not be carried out during the war and immediate post-war years.

Lake Freight Rates

The maximum rates authorized by the Board's Order No. 20 of September 28, 1954, as follows, remained in effect throughout the 1955 season of navigation:

	Wheat and Rye	Barley	Oats
		—cents—	
(a) From: Fort William or Port Arthur, Ontario			
To: Georgian Bay Ports, Goderich, Sarnia and			
Walkerville.....	5½	5¼	5
Port Colborne.....	7½	7¼	6¾
Toronto.....	8	7½	7¼
Kingston.....	8¾	8¼	8
Prescott.....	9	8½	8½
Montreal, Sorel, Three Rivers and Quebec City,			
Direct or transferred at Intermediate Ports.....	16	15¼	14

(b) For grain loaded during the month of December in any year these maximum rates are increased two cents (2c) per bushel to compensate for increased insurance rates.

Table 11 of Appendix G gives the average rates charged. These were appreciably lower than the maximum rates.

Prairie Farm Assistance Act

Under the provisions of section 13 of the Prairie Farm Assistance Act, the Board collected the one per centum levy on grain purchased by licensees under

TRADE AND COMMERCE

the Canada Grain Act during the crop year 1954-55 in the amount of \$5,533,119.63. Total collections by the Board since the inception of this levy in 1939 amount to \$88,750,952.10.

Organization and Personnel

Commissioner R. W. Milner continued to act as Transport Controller in addition to carrying out his duties as a member of the Board.

Commissioner John Vallance retired on account of age, effective March 11, 1955 after four years' service as an Assistant Commissioner and seven years as a Commissioner. He was succeeded by Mr. Stanley Loptson of Bredenbury, Sask.

Mr. S. M. Capon, Chief Grain Weighmaster since December 1, 1929, retired on account of age on August 18, 1955, after forty-two years' service. He was succeeded by Mr. J. J. Manson.

Mr. K. Hlynka, Secretary of the Board since April 1, 1953, resigned effective June 1, 1955 to accept an appointment with a commercial organization, and Mr. W. J. MacLeod, Personnel Officer, was promoted to the position of Secretary, being replaced as Personnel Officer by Mr. G. E. Rogers, a member of the staff of the Executive Office.

The Board's staff at December 31, 1955 was 897, the same as at December 31, 1954, while the staff of the Canadian Government Elevators at Winnipeg, Saskatoon, Moose Jaw, Calgary, Edmonton, Lethbridge and Prince Rupert showed a reduction of 5 to 193, including 40 casuals.

The following table shows location of the Board's staff broken down by groups:

Point	Ad- minis- trative and Cler- ical	In- spec- tors and Assist- ants	Sam- plers	Weigh- men and Assist- ants	Track- men	At December 31, 1955		At December 31, 1954	
						Totals	Casuals†	Totals	Casuals†
Montreal.....	8	9	11	1	—	29	5	22	—
Chatham.....	1	3	6	—	—	10	2	13	4
Toronto.....	—	1	1	—	—	2	—	2	—
Fort William.....	32	100	67	90	52	341	—	340	5
Keewatin.....	—	—	2	2	—	4	—	4	—
Winnipeg.....	113 31*	39	95	10	—	288	2	285	10
Saskatoon.....	3	4	6	4	2	19	—	17	1
Moose Jaw.....	—	4	6	3	1	14	—	13	—
Medicine Hat.....	—	2	1	3	—	6	—	6	—
Lethbridge.....	—	1	2	1	1	5	1	5	1
Edmonton.....	5	8	22	3	2	40	8	42	10
Calgary.....	7	8	18	6	5	44	2	43	5
Vancouver.....	15	28	5	28	9	85	8	96	19
Prince Rupert.....	—	1	2	1	2	6	4	5	4
Victoria.....	—	2	—	2	—	4	—	4	—
Totals.....	184 31*	210	244	154	74	897	32	897	59

†Casuals included in totals.

*Chemists and Technicians.

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Expenditure and Revenue

Total expenditure and accrued revenue of the Board, exclusive of the Canadian Government Elevators, for the fiscal year 1954-55 compared with 1953-54 was as follows:

	1954-55	1953-54
Revenue	\$2,429,531.09	\$3,318,179.00
Expenditure	3,552,095.35	3,506,094.00

Expenditure for the nine months of the 1955-56 fiscal year to December 31, 1955, totalled \$2,703,469.97 as against \$2,667,694.50 for the comparable period during 1954-55. Cash revenue for the same nine-month period amounted to \$1,668,120.62 as compared with \$1,900,569.43 in the previous year.

The Appendices attached hereto outline the work of the Board's different branches and furnish detailed statements of various phases of the grain movement.

Respectfully submitted,

D. G. McKENZIE,
Chief Commissioner

R. W. MILNER,
Commissioner

S. LOPTSON,
Commissioner

APPENDIX A

Committee on Western Grain Standards, 1955

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners
 R. W. Milner, Commissioner, Board of Grain Commissioners
 S. Loptson, Commissioner, Board of Grain Commissioners
 A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
 Dr. J. A. Anderson, Chief Chemist, Grain Research Laboratory
 J. Forsyth, Chairman, Grain Appeal Tribunal, Winnipeg
 P. J. Marples, Chairman, Grain Appeal Tribunal, Calgary
 R. E. Forrester, Chairman, Grain Appeal Tribunal, Edmonton
 Dr. D. G. Hamilton, Dominion Cerealists
 E. B. Frost, representing the millers of wheat flour

George Bennett.....	}	Representing grain growers in Alberta
W. H. Fairfield.....		
Uri Powell.....		
B. S. Plumer.....		

J. H. Harrison.....	}	Representing grain growers in Saskatchewan
A. P. Gleave.....		
J. Wellbelove.....		
L. L. Gray.....		
N. W. Strelioff.....		

W. J. Parker.....	}	Representing grain growers in Manitoba
R. Barrett.....		
Ray Mitchell.....		

G. Constable, representing grain growers in British Columbia
 J. E. Blakeman, representing Plant Products Division, Department of Agriculture

Committee on Eastern Grain Standards, 1955

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners
 R. W. Milner, Commissioner, Board of Grain Commissioners
 S. Loptson, Commissioner, Board of Grain Commissioners
 A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
 R. H. Read, representing Montreal Board of Trade
 E. D. Sullivan, representing Toronto Board of Trade
 C. Gordon McAuley, representing exporters of grain

F. H. Dunsford.....	}	Representing millers of wheat in the Eastern Division
H. Norman Davis.....		
J. R. Heaney.....	}	Representing grain growers in Ontario
J. E. Nephew.....		

 G. C. Nichols, representing growers of corn
 E. B. Paterson, Additional
 John W. Ham, Additional

APPENDIX B

Grain Appeal Tribunals

WINNIPEG	CALGARY	EDMONTON
J. Forsyth (Chairman)	P. J. Marples (Chairman)	R. E. Forrester (Chairman)
E. A. Sangster	T. F. Allison	C. C. Young
Wm. E. McLeod	J. Tranter	M. G. Wood
G. A. Turner	W. M. Pringle	J. R. MacRae
James Gregory	E. J. Munson	T. Stickney
R. C. Sproule	W. G. McLeod	D. G. MacKeracher
J. F. Lazenby	G. C. Arbuthnott	H. A. Haggarty
D. K. Mills	A. Watson	C. E. Sage
G. I. Rocan	G. R. Deeton	Ross Saunders
N. Kawka (Secretary)		D. F. Marlett (Secretary)
TORONTO		MONTREAL
John W. Ham		P. J. Smith (Chairman)
C. H. Coatsworth		A. W. Brown
R. C. Pratt		T. B. Earle
C. W. Heimbecker		J. A. Byrne
W. A. Robertson		J. M. Vittie
E. D. Sullivan		G. D. Robinson
K. F. Wadsworth		Mrs. Muriel B. Hunter
J. C. Noseworthy (Secretary)		(Secretary)

For information on Appeals of Carlot Inspections refer to Appendix E, Table E-7.

APPENDIX C

Licence and Bonding Branch

C. F. SPITTLE, *Licensing Officer*

Licences are issued by the Board under the provisions of Section 79 of the Canada Grain Act which section also provides that every applicant for a licence shall furnish security by bond or otherwise for the due performance by the licensee of all obligations imposed upon him by the Act.

The Act provides that no railway company or vessel shall receive any Western grain from any elevator or discharge any such grain into any elevator unless such elevator is licensed.

The Act also provides that, except for contracts for the purchase of grain the consideration payable under which is to be paid in full in cash at the time of the making thereof or contracts for the purchase of grain made on the premises of a recognized grain exchange by or through brokers who are members of such exchange, no person in the Western division may make any contract for the purchase of Western grain by reference to any grade name nor act on behalf of any other person in making such contract on a commission basis, unless he is licensed under the Canada Grain Act as a grain dealer, track buyer or grain commission merchant.

During the crop year 1954-55, 5,552 licences were issued to 116 firms and individuals to handle grain under the Canada Grain Act, or 10 less than in the previous crop year. In addition, country elevator licensees were authorized to use 174 supplementary storage annexes, comprising flour sheds, coal sheds, skating rinks and other buildings.

On July 31, 1955, with 5,488 elevator licences in force and 164 buildings authorized for supplementary storage, the total licensed storage capacity was 579,984,060 bushels in elevators, and 6,252,850 bushels in supplementary storage annexes to country elevators. In addition, 54 Track Buyers', Commission Merchants' and Grain Dealers' licences were also in force. The following table gives a comparative statement of numbers and classes of licences in force and storage capacity:

Kind of Licence	Licences in force July 31		Licensed storage capacity July 31	
	1955	1954	1955	1954
Country Elevators.....	5,377	5,359	337,199,450	326,698,550
Supplementary Annexes to Country Elevators.....	*	*	6,252,850	4,763,638
Terminals and Mill Elevators.....	82	86	151,938,810	153,583,820
Eastern Elevators.....	29	29	90,845,800	88,929,800
Track Buyers, Commission Merchants and Grain Dealers.....	54	56	†	†
Totals.....	5,542	5,530	586,236,910	573,975,808

*164 buildings at July 31, 1955, and 139 buildings at July 31, 1954.

†These licences do not cover grain storage facilities.

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During the crop year, ten country elevator licences were cancelled, four on account of demolition, one destroyed by fire, four closed down by licensees, and one converted into an annex. The authority covering eight supplementary annexes was also cancelled.

Fifty-four country elevator licences were suspended by the Board for varying periods during rehabilitation and reconstruction of the buildings. Thirty-eight of these were subsequently reinstated but sixteen were still under suspension at July 31, 1955.

Guarantee bonds in the amount of \$27,680,811.50 executed by sixteen approved surety companies were deposited with the Board as security under section 79 of the Canada Grain Act to cover operations of licensees during 1954-55. Four licensees deposited negotiable Government bonds with a par value of \$21,000 in lieu of furnishing the usual form of surety bonds.

At December 1, 1955, at which date essentially all licences were issued for the 1955-56 crop year, there were 5,487 elevator licences in force. In addition, 266 buildings other than elevators were authorized for supplementary storage. The total licensed storage capacity as at December 1, 1955, was 590,803,260 bushels in elevators and 8,521,700 bushels in supplementary annexes, or a total increase of 18,356,150 bushels since December 1, 1954. The total storage capacity by provinces is: Manitoba, 56.9 million; Saskatchewan, 198.7; Alberta, 132.7; British Columbia, 23.0; Ontario, 152.9; and Quebec and the Maritimes, 35.1 million bushels.

Table C-1.—Number and Kind of Licences Issued and Licensed Storage Capacity, as at December 1st Each Year for the Past Five Years

Kind of Licence	1955	1954	1953	1952	1951
NUMBER OF LICENCES					
Public Country Elevator.....	5,369	5,352	5,326	5,341	5,354
Private Country Elevator.....	10	10	10	10	10
Mill Elevator.....	33	36	40	38	38
Public Terminal Elevator.....	5	6	6	6	6
Semi-Public Terminal Elevator.....	35	34	35	36	35
Private Terminal Elevator.....	5	7	6	7	7
Eastern Elevator.....	30	29	29	29	29
Track Buyer.....	21	21	21	21	22
Commission Merchant.....	25	25	26	27	28
Grain Dealer.....	7	8	9	9	11
Totals.....	5,540	5,528	5,508	5,524	5,540
LICENSED CAPACITY					
	thousands of bushels				
Public Country Elevator.....	343,953	332,454	318,224	306,484	290,504
Special Annexes.....	8,522	5,369	4,411	1,579	627
Private Country Elevator.....	349	349	349	350	354
Mill Elevator.....	13,525	13,429	13,495	13,426	13,306
Public Terminal Elevator.....	17,100	18,350	18,350	18,350	18,350
Semi-Public Terminal Elevator.....	116,624	112,873	114,523	108,455	114,524
Private Terminal Elevator.....	7,070	7,295	7,220	7,295	7,295
Eastern Elevator.....	92,182	90,845	84,929	84,930	82,530
Totals.....	599,325	580,964	561,501	540,869	527,490

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Table C-2.—Licensed Elevators and Storage as at December 1, 1955

Kind of Elevator	Ontario	Mani- toba	Saskat- chewan	Alberta	British Colum- bia	Quebec and Mari- times	Totals
NUMBER OF ELEVATORS							
Public Country	2	701	2,940	1,709	17	—	5,369
Special Annexes	—	—	—	—	—	—	—
Private Country	—	4	1	5	—	—	10
Mill	3	6	6	11	7	—	33
Public Terminal	—	—	2	3	—	—	5
Semi-Public Terminal	24	2	—	—	9	—	35
Private Terminal	2	2	—	1	—	—	5
Eastern	18	—	—	—	—	12	30
Totals	49	715	2,949	1,729	33	12	5,487
STORAGE CAPACITY							
thousands of bushels							
Public Country	65	45,352	178,924	117,824	1,788	—	343,953
Special Annexes	1,400	505	3,830	2,787	—	—	8,522
Private Country	—	88	29	232	—	—	349
Mill	1,480	1,775	4,916	4,294	1,060	—	13,525
Public Terminal	—	—	11,000	6,100	—	—	17,100
Semi-Public Terminal	90,517	6,000	—	—	20,107	—	116,624
Private Terminal	2,435	3,145	—	1,490	—	—	7,070
Eastern	57,041	—	—	—	—	35,141	92,182
Totals	152,938	56,865	198,699	132,727	22,955	35,141	599,325

Collection of One Per Cent Levy

The collection during the crop year 1954-55 of the one per cent levy made by this office under provisions of the Prairie Farm Assistance Act is recorded at \$5,533,119.63, a decrease of \$2,453,912.14 from collections during the previous crop year.

Table C-3.—Amounts Collected and Grain Purchased under the One Per Cent Levy, Prairie Farm Assistance Act, Crop Year 1954-55

Province	Wheat	Oats	Barley	Rye	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Manitoba.....	329,190 33	88,755 70	318,707 88	12,040 14	748,694 05
Saskatchewan.....	2,515,905 98	231,531 74	362,417 99	59,931 53	3,169,787 24
Alberta.....	1,154,602 76	114,306 51	311,876 78	33,699 98	1,614,486 03
Totals.....	3,999,699 07	434,593 95	993,002 65	105,671 65	5,532,967 32
Amount not allocated to provinces.....					152 31
Total collections Aug. 1, 1954 to July 31, 1955.....					5,533,119 63
GRAIN PURCHASES					
	thousands of bushels				
Manitoba.....	24,387	13,851	34,083	1,654	73,975
Saskatchewan.....	195,086	37,266	41,505	7,422	281,279
Alberta.....	92,649	18,100	36,013	3,841	150,603
Totals.....	312,122	69,217	111,601	12,917	505,857

APPENDIX D

Registration Branch

C. J. BROWNSCOMBE, *Registrar*

Section 127 of the Canada Grain Act requires the operators or managers of Public terminal, Semi-Public terminal and Eastern elevators to issue warehouse receipts for all grain taken into store. Regulations No. 1 and No. 2 made by the Board under Section 15 (22) of the Canada Grain Act require that all such receipts be registered with the Board as to grade and quantity at the time of issue and that these warehouse receipts be surrendered to the Board for registration for cancellation when the grain which they represent has been shipped out.

During the 1954-55 crop year, registration service was provided for the licensees of 6 Public Terminal, 34 Semi-Public Terminal and 29 Eastern elevators at registration offices maintained by the Board at Montreal, Winnipeg and Vancouver.

Table D of this appendix presents the total bushels, by grains, for which warehouse receipts were registered against unloads of grain and registered for cancellation against shipments of grain, as well as the averages for the previous ten crop years. In addition, there were daily registrations of warehouse receipts to replace receipts cancelled for splits and consolidations required to facilitate the handling of grain.

Records were maintained by grade, of the total bushels for which warehouse receipts were registered, cancelled or were still outstanding, for each terminal and eastern elevator. Certified statements of outstanding warehouse receipts by grade and grain, were issued for comparison with the stocks of grain weighed over in terminal and eastern elevators.

The total registrations of all grains for elevators in the Winnipeg, Lakehead, Churchill and interior elevator groups in the crop year 1954-55, were less than the ten-year average but registrations for the Vancouver group of elevators, while less than in 1953-54, were still well above the ten-year average so that the over-all total of registrations for the Western Division was only slightly less than the ten-year average. Registrations for elevators in the Eastern Division show an appreciable increase over 1953-54 as well as over the average for the last ten years.

Fees were collected for registration services at the rate of 4 cents per thousand bushels for the Western Division and 1 cent per thousand bushels in the Eastern Division. While the reduced volume of registrations in the Western Division is reflected in the fees collected for that Division, the total collections for both Divisions of \$45,940.48 was still above the ten-year average of \$45,260.37.

TRADE AND COMMERCE

Table D-1.—Warehouse Receipt Registrations for Receipts and Shipments at Public and Semi-Public Terminal Elevators and Eastern Elevators, by Area and Grain, Crop Year 1954-55 and 10-year Average

Area	Grain	Crop Year 1954-55		10-Year Average, 1944-45 to 1953-54	
		Registered	Registered for Cancellation	Registered	Registered for Cancellation
—thousands of bushels—					
WESTERN DIVISION— Winnipeg, including Lakehead and Churchill	Wheat	167,095	179,133	218,214	215,784
	Oats	58,215	55,084	76,149	79,950
	Barley	88,935	88,012	60,389	60,220
	Flax	8,507	8,894	6,233	6,250
	Rye	13,344	11,377	9,165	9,263
	Mixed Grain	315	297	1,124	703
	Corn	—	—	59	66
	Other Grains	202	201	45	48
INTERIOR ELEVATORS— Calgary, Edmonton, Lethbridge, Moose Jaw and Saskatoon	Wheat	2,506	2,663	5,291	4,715
	Oats	579	587	689	698
	Barley	1,347	1,520	1,640	1,632
	Flax	250	248	157	209
	Rye	43	27	30	29
	Mixed Grain	—	1	7	25
	Corn	12	11	15	12
	Other Grains	226	226	220	203
VANCOUVER AND PRINCE RUPERT AREA	Wheat	82,535	81,475	69,425	70,193
	Oats	4,165	4,900	2,754	3,680
	Barley	15,562	14,885	5,698	5,631
	Flax	335	334	109	116
	Rye	—	—	38	38
	Mixed Grain	8	36	53	47
	Corn	—	—	287	286
	Other Grains	154	154	6	5
WESTERN DIVISION— All Points	Wheat	252,136	263,271	292,930	290,692
	Oats	62,959	60,571	79,592	84,328
	Barley	105,844	104,417	67,727	67,483
	Flax	9,092	9,476	6,499	6,575
	Rye	13,387	11,404	9,233	9,330
	Mixed Grain	323	334	1,184	775
	Corn	12	11	361	364
	Other Grains	582	581	271	256
Totals—All Grains		444,335	450,065	457,797	459,803
EASTERN DIVISION—	Wheat	294,051	292,304	294,560	292,983
	Oats	48,120	46,643	46,573	46,619
	Barley	111,747	111,423	55,971	56,153
	Flax	18,598	19,538	8,070	7,995
	Rye	14,358	14,258	6,116	6,029
	Mixed Grain	632	593	434	418
	Sunflower Seed . . .	—	—	—	10
	Corn	17,440	17,122	14,065	14,190
	Screenings	1,192	979	1,014	1,052
	Peas	156	158	37	43
	Soybeans	3,005	2,784	1,298	1,326
	Buckwheat	531	529	197	198
	Other Grains	146	146	126	126
Totals—All Grains		509,976	506,477	428,461	427,142

APPENDIX E

Inspection Branch

A. F. DOLLERY, *Chief Grain Inspector*

Under Section 32 of the Canada Grain Act, the Grain Inspection Branch in the Western Division samples and grades all grain enroute from country points to terminal and mill elevators or other destinations, at the primary inspection points of Winnipeg, Edmonton and Calgary. All grain is also sampled and graded on delivery to terminal or mill elevators at Saskatoon, Moose Jaw, Medicine Hat and Lethbridge if such grain has not passed through an inspection point. In addition, inspectors resample and check primary grading of all grain unloaded into terminal and mill elevators at the Lakehead, Churchill, Pacific Coast and interior points, as well as sampling and grading all grain shipped from terminal or mill elevators.

In the Eastern Division, sampling and grading service is provided on request at Chatham and Toronto for eastern grown grain. At Montreal, Quebec, Sorel, Three Rivers, St. John and Halifax, grain loaded into vessels for export is sampled and the grades are checked. Grades of all grain in store in all terminal and eastern elevators weighed over during the crop year are verified by Inspection Branch officials.

In the crop year ended July 31, 1955, inspections of Western grain at primary points totalled 278,338 carlots compared with 304,599 in the previous crop year. This total is approximately four per cent less than the average for the past ten years.

The predominant grade in Red Spring Wheat was No. 2 Manitoba Northern with 37.2 per cent of total wheat inspections. With 27.5 per cent grading No. 3 Manitoba Northern and 4.4 per cent grading No. 1 Manitoba Northern, the first three grades totalled 69.1 per cent as compared with 77 per cent in the previous crop year. Of the Durum Wheat inspected, 50.7 per cent graded No. 3 C.W. and 28.2 per cent No. 4 C.W., compared with 83.4 per cent No. 3 C.W. and 6.9 per cent No. 4 C.W. in the previous year.

As was the case in the previous crop year approximately one-half of the oats inspected graded No. 1 Feed but the percentages of the higher grades, No. 3 C.W. and Extra 1 Feed, 11.2 per cent and 13.6 per cent respectively, were less than in the previous year when the percentages were 21 per cent and 17 per cent respectively. The predominant grade in Barley was No. 1 Feed, 22.6 per cent with 17 per cent grading No. 3 Canada Western Six Row and 35.6 per cent Tough or Damp, compared with 24 per cent, 33 per cent and 10 per cent respectively in 1953-54. In Rye, 53.1 per cent graded 3 C.W. and 19.3 per cent 2 C.W., which percentages are nearly the same as in the previous crop year, 57.4 per cent and 21.5 per cent respectively. Flax did not grade as high as in the previous year, only 54.8 per cent grading No. 1 C.W. as compared with 85 per cent and 22.2 per cent No. 2 C.W., compared with 10.8 per cent in 1953-54.

Grain inspections on loadings to vessels at the Lakehead, Pacific Coast and Churchill terminal elevators totalled 424 million bushels as compared with 476 million bushels in the previous crop year. Export cargoes shipped from St.

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Lawrence and Atlantic ports, totalling 175 million bushels, were sampled and checked for grade at loading, as compared with 122 million bushels in the previous crop year. Cargoes received at Montreal totalling 105 millions, were also sampled and grades checked, as compared with 88 million in the previous crop year.

Eastern grown grain sampled and inspected in carlots totalled 10,517 cars of which 9,809 cars were handled by the Chatham office. In the previous crop year the totals were 13,774 and 12,336 respectively. Corn accounted for 5,051 cars.

Table E-1.—Primary Carlot Inspections by Grains, Crop Year 1954-55, compared with 1953-54 and 10-year Average 1944-45 to 1953-54

	10-Year Average	1954-55	1953-54	10-Year Average	1954-55	1953-54
	Carlots			Percent of total		
Wheat.....	199,796	177,293	194,747	68.4	63.8	63.9
Oats.....	39,741	29,420	41,319	13.6	10.5	13.6
Barley.....	41,023	56,633	55,027	14.1	20.3	18.0
Rye.....	5,348	7,593	6,394	1.8	2.8	2.1
Flaxseed.....	4,815	5,834	5,108	1.7	2.1	1.7
Mixed Grain.....	618	382	811	.2	0.1	0.3
Corn.....	114	362	344	*	0.1	0.1
Buckwheat.....	33	157	174	*	*	*
Screenings.....	461	328	375	.2	0.1	0.1
Sunflower Seeds.....	12	—	1	*	*	*
Rapeseed.....	17	173	151	*	*	*
Peas.....	73	162	148	*	*	*
Soybeans.....	1	1	—	*	*	*
Totals.....	292,052	278,338	304,599	100.0	100.0	100.0

*Less than 0.05%

Table E-2.—Primary Carlot Inspections by Points, Crop Year 1954-55, compared with 1953-54 and 10-year Average 1944-45 to 1953-54

	10-Year Average	1954-55	1953-54	10-Year Average	1954-55	1953-54
	Carlots			Percent of total		
Winnipeg.....	213,127	188,666	197,787	73.0	67.8	65.0
Calgary.....	31,323	39,930	47,162	10.7	14.3	15.5
Edmonton.....	28,093	25,830	36,729	9.6	9.3	12.1
Moose Jaw.....	4,915	4,697	4,239	1.7	1.7	1.4
Saskatoon.....	6,620	8,463	8,615	2.3	3.0	2.8
Lethbridge.....	148	40	16	*	*	*
Medicine Hat.....	3,680	2,814	2,548	1.3	1.1	0.8
Vancouver.....	1,052	685	961	.4	0.2	0.3
Churchill.....	† 3,094	7,213	6,542	1.0	2.6	2.1
Totals.....	292,052	278,338	304,599	100.0	100.0	100.0

*Less than 0.05%.

†Cars inspected during last eight years only.

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Table E-3.—Primary Carlot Inspections, Crop Year 1954-55, by Grain and Grades

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT			
1 Manitoba Northern.....	7,595	4.4	—
2 Manitoba Northern.....	63,406	37.2	—
3 Manitoba Northern.....	46,818	27.5	—
4 Manitoba Northern.....	14,645	8.6	—
No. 4 Special.....	115	0.1	—
No. 5.....	7,912	4.6	—
No. 5 Special.....	86	*	—
No. 6.....	3,860	2.3	—
No. 6 Special.....	2	*	—
Feed.....	1,778	1.0	—
Sample.....	87	*	—
Smutty.....	124	0.1	—
Rejected.....	3,536	2.2	—
Tough.....	20,069	11.8	—
Damp.....	414	0.2	—
Others.....	3	*	—
Total Red Spring Wheat.....	170,450	100.0	96.1
1 Canada Western Garnet.....	1	*	—
2 Canada Western Garnet.....	216	8.7	—
3 Canada Western Garnet.....	1,318	52.9	—
4 Canada Western Garnet.....	44	1.8	—
Smutty Canada Western Garnet.....	1	*	—
Tough Canada Western Garnet.....	875	35.2	—
Damp Canada Western Garnet.....	10	0.4	—
Rejected Canada Western Garnet.....	24	1.0	—
Total Garnet Wheat.....	2,489	100.0	1.4
1 Canada Western Amber Durum.....	5	0.1	—
2 Canada Western Amber Durum.....	63	1.9	—
3 Canada Western Amber Durum.....	1,669	50.7	—
4 Canada Western Amber Durum.....	924	28.2	—
5 Canada Western Amber Durum.....	318	9.7	—
6 Canada Western Amber Durum.....	159	4.8	—
Smutty Canada Western Amber Durum.....	3	0.1	—
Rejected Canada Western Amber Durum.....	81	2.5	—
Tough Canada Western Amber Durum.....	52	1.6	—
Damp Canada Western Amber Durum.....	1	*	—
Sample Canada Western Amber Durum.....	16	0.4	—
Total Amber Durum Wheat.....	3,291	100.0	1.9
1 Canada Western Soft White Spring.....	23	15.0	—
2 Canada Western Soft White Spring.....	87	57.0	—
3 Canada Western Soft White Spring.....	27	17.6	—
4 Canada Western Soft White Spring.....	9	5.8	—
Rejected Canada Western Soft White Spring.....	3	2.0	—
Tough Canada Western Soft White Spring.....	4	2.6	—
Total Soft White Spring Wheat.....	153	100.0	0.1
1 Canada Western Mixed Wheat.....	11	13.4	—
2 Canada Western Mixed Wheat.....	3	3.8	—
3 Canada Western Mixed Wheat.....	21	25.6	—
4 Canada Western Mixed Wheat.....	11	13.4	—
5 Canada Western Mixed Wheat.....	20	24.4	—
6 Canada Western Mixed Wheat.....	7	8.5	—
Smutty Canada Western Mixed Wheat.....	2	2.4	—
Rejected Canada Western Mixed Wheat.....	5	6.1	—
Tough Canada Western Mixed Wheat.....	1	1.2	—
Damp Canada Western Mixed Wheat.....	1	1.2	—
Total Mixed Wheat.....	82	100.0	—

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Table E-3.—Primary Carlot Inspections, Crop Year 1954-55, by Grain and Grades—Cont'd

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT—Concluded			
1 Alberta Red Winter.....	148	17.9	—
2 Alberta Winter.....	410	49.5	—
3 Alberta Winter.....	111	13.4	—
4 Alberta Winter.....	11	1.3	—
Smutty Alberta Winter.....	10	1.2	—
Rejected Alberta Winter.....	21	2.5	—
Tough Alberta Winter.....	65	7.9	—
Damp Alberta Winter.....	52	6.3	—
Total Alberta Winter Wheat.....	828	100.0	0.5
Total All Wheats.....	177,293	—	100.0

Grade	Carlots	Percentage
OATS		
2 Canada Western.....	47	0.2
Extra 3 Canada Western.....	390	1.3
3 Canada Western.....	3,285	11.2
Extra 1 Feed.....	4,010	13.6
1 Feed.....	14,469	49.2
2 Feed.....	2,485	8.4
3 Feed.....	401	1.4
Mixed Feed Oats.....	10	*
Rejected Oats.....	196	0.7
Sample Oats.....	115	0.4
Tough.....	3,996	13.6
Damp.....	13	*
Mixed Feed Oats Groats.....	3	*
Total Oats.....	29,420	100.0

BARLEY		
1 Canada Western Six Row.....	3	*
2 Canada Western Six Row.....	307	0.5
3 Canada Western Six Row.....	9,646	17.0
4 Canada Western Six Row.....	570	1.0
1 Canada Western Two Row.....	1	*
2 Canada Western Two Row.....	37	0.1
3 Canada Western Two Row.....	1,474	2.6
1 Feed.....	12,787	22.6
2 Feed.....	9,728	17.2
3 Feed.....	1,732	3.0
Rejected.....	155	0.3
Sample.....	30	0.1
Tough.....	19,583	34.6
Damp.....	580	1.0
Total Barley.....	56,633	100.0

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Table E-3.—Primary Carlot Inspections, Crop Year 1954-55, by Grain and Grades—Cont'd

Grade	Carlots	Percentage
RYE		
1 Canada Western.....	9	0.1
2 Canada Western.....	1,458	19.3
3 Canada Western.....	4,033	53.1
4 Canada Western.....	190	2.5
Ergoty Rye.....	179	2.4
Rejected.....	16	0.1
Sample.....	2	*
Tough.....	1,697	22.4
Damp.....	6	0.1
Others.....	3	*
Total Rye.....	7,593	100.0
FLAXSEED		
1 Canada Western.....	3,198	54.8
2 Canada Western.....	1,297	22.2
3 Canada Western.....	240	4.1
4 Canada Western.....	6	0.1
Sample.....	8	0.1
Tough.....	1,032	17.8
Damp.....	48	0.8
Flax and Broken Grain.....	5	0.1
Total Flaxseed.....	5,834	100.0
MIXED GRAIN		
1 Canada Western.....	48	12.6
2 Canada Western.....	29	7.6
3 Canada Western.....	130	34.0
4 Canada Western.....	29	7.6
Rejected.....	19	5.0
Sample.....	67	17.5
Tough.....	59	15.4
Damp.....	1	0.3
Total Mixed Grain.....	382	100.0
CORN		
1 Canada Western Yellow.....	2	0.6
2 Canada Western Yellow.....	15	4.1
3 Canada Western Yellow.....	21	5.8
4 Canada Western Yellow.....	8	2.2
5 Canada Western Yellow.....	13	3.6
Tough.....	5	1.3
Damp.....	1	0.3
Moist.....	2	0.6
Wet.....	2	0.6
U.S.A. Origin.....	291	80.3
Others.....	2	0.6
Total Corn.....	362	100.0
Buckwheat.....	157	—
Screenings.....	328	—
Rapeseed.....	173	—
Peas.....	162	—
Soybeans.....	1	—
Grand Total.....	278,338	—

*Less than 0.05%.

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**Table E-4.—Carlots of Tough, Damp and Straight Grain Inspected at
Primary Inspection Points, Crop Year 1954-55**

Grain	Tough	Damp	Tough and Damp	Straight	Total
Wheat.....	21,066	478	21,544	155,749	177,293
Oats.....	3,996	13	4,009	25,411	29,420
Barley.....	19,583	580	20,163	36,470	56,633
Rye.....	1,697	6	1,703	5,890	7,593
Flaxseed.....	1,032	48	1,080	4,754	5,834
Others.....	64	2	66	1,499	1,565
All Grains.....	47,438	1,127	48,565	229,773	278,338
PERCENTAGE OF TOTAL					
	%	%	%	%	%
Wheat.....	11.9	0.3	12.2	87.8	100.0
Oats.....	13.6	*	13.6	86.4	100.0
Barley.....	34.6	1.0	35.6	64.4	100.0
Rye.....	22.3	0.1	22.4	77.6	100.0
Flaxseed.....	17.7	0.8	18.5	81.5	100.0
Others.....	4.1	0.1	4.2	95.8	100.0
All Grains.....	17.0	0.4	17.4	82.6	100.0

*Less than 0.05%.

**Table E-5.—Number of Two Pound Samples “Subject to Grade and Dockage” Inspected
Crop Year 1954-55 Compared with the Crop Year 1953-54**

Point	1954-55	1953-54
	Number of Samples	
Winnipeg.....	9,053	6,797
Calgary.....	1,130	997
Edmonton.....	817	813
Moose Jaw.....	133	110
Saskatoon.....	715	859
Lethbridge.....	907	506
Medicine Hat.....	55	13
Totals.....	12,810	10,095

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Table E-6.—Carlots Re-inspected, Crop Year 1954-55

Point	In-spected	Re-in-spected	Un-changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered
Number of Carlots							
Winnipeg	188,666	13,445	6,965	3,173	524	430	2,353
Calgary	39,930	4,690	1,617	1,812	67	247	947
Edmonton	25,830	5,135	2,041	1,293	64	143	1,594
Saskatoon	8,463	342	316	26	—	—	—
Moose Jaw	4,697	445	398	46	—	1	—
Medicine Hat	2,814	25	7	16	2	—	—
Lethbridge	40	2	1	1	—	—	—
Vancouver	685	461	410	49	2	—	—
Churchill	7,213	—	—	—	—	—	—
Totals	278,338	24,545	11,755	6,416	659	821	4,894
Percentage of Re-inspections							
	%	%	%	%	%	%	%
Winnipeg	—	100	51.8	23.6	3.9	3.2	17.5
Calgary	—	100	34.5	38.6	1.4	5.3	20.2
Edmonton	—	100	39.7	25.2	1.2	2.8	31.1
Saskatoon	—	100	92.4	7.6	—	—	—
Moose Jaw	—	100	89.5	10.3	—	0.2	—
Medicine Hat	—	100	28.0	64.0	8.0	—	—
Lethbridge	—	100	50.0	50.0	—	—	—
Vancouver	—	100	88.9	10.6	0.5	—	—
Churchill	—	100	—	—	—	—	—
Totals	—	100	47.9	26.1	2.8	3.3	19.9
Percentage of Total Inspections							
	%	%	%	%	%	%	%
Winnipeg	100	7.1	3.7	1.7	0.3	0.2	1.2
Calgary	100	11.7	4.0	4.5	0.2	0.6	2.4
Edmonton	100	19.9	7.9	5.0	0.2	0.6	6.2
Saskatoon	100	4.0	3.7	0.3	—	—	—
Moose Jaw	100	9.5	8.5	1.0	—	—	—
Medicine Hat	100	0.9	0.2	0.6	0.1	—	—
Lethbridge	100	5.0	2.5	2.5	—	—	—
Vancouver	100	67.3	59.9	7.2	0.3	—	—
Churchill	100	—	—	—	—	—	—
Totals	100	8.8	4.2	2.3	0.2	0.3	1.8

Table E-7.—Summary of Carlot Inspections Appealed, Crop Year 1954-55

Item	Winnipeg		Edmonton		Calgary		Total	
	Cars	Percent	Cars	Percent	Cars	Percent	Cars	Percent
Left as Graded . . .	593	94.1	186	84.9	492	82.5	1,271	88.0
Grades Raised . . .	36	5.7	32	14.6	100	16.8	168	11.6
Grades Lowered . . .	1	0.2	1	0.5	4	.7	6	.4
Totals	630	100.0	219	100.0	596	100.0	1,445	100.0
Total Cars Inspected							278,338	100.00
Total Appeals							1,445	0.52
Total Grades Changed							174	0.06

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Table E-8.—Vessel Shipments Inspected, Crop Year 1954-55

Grain	Fort William and Port Arthur	Vancouver	Victoria	Prince Rupert	Churchill	Total
	bu.	bu.	bu.	bu.	bu.	bu.
Wheat.....	164,633,346	78,176,392	1,410,080	314,796	12,094,893	256,629,507
Oats.....	46,627,759	3,682,891	—	—	—	50,310,650
Barley.....	82,087,173	9,636,382	—	4,888,847	—	96,612,402
Rye.....	10,804,173	—	—	—	—	10,804,173
Flaxseed.....	5,723,092	318,412	—	—	—	6,041,504
Buckwheat.....	128,230	—	—	—	—	128,230
*Sample Grain.....	102,724	—	—	—	—	102,724
*Screenings.....	3,119,578	4,200	—	—	—	3,123,778
*Canada Rapeseed.....	—	154,366	—	—	—	154,366
Totals.....	313,226,075	91,972,643	1,410,080	5,203,643	12,094,893	423,907,334

*In Bushels of 50 pounds.

Table E-9.—Carlot Shipments ex Terminal Elevators Inspected, Crop Year 1954-55

Grain	Winnipeg	Fort William and Port Arthur	Calgary	Edmonton	Moose Jaw
Number of Carlots					
Wheat.....	707	1,250	328	282	447
Oats.....	1,084	4,254	19	71	251
Barley.....	435	5,035	1,034	41	17
Flaxseed.....	25	1,638	54	71	7
Rye.....	14	280	12	—	4
Mixed Grain.....	107	—	48	—	2
Corn.....	5	—	—	—	—
Buckwheat.....	5	43	—	—	—
Peas.....	47	—	—	—	—
Soybeans.....	—	—	—	—	—
Sunflower Seeds.....	—	—	—	—	—
Screenings.....	378	2,853	203	44	63
Sample Grain.....	—	179	—	—	—
Totals.....	2,807	15,532	1,698	509	791
Grain	Saskatoon	Lethbridge	Medicine Hat	Vancouver, Victoria and Prince Rupert	Churchill
Wheat.....	1,832	4	14	814	—
Oats.....	158	—	1	408	31
Barley.....	19	—	—	178	—
Flaxseed.....	20	8	25	9	—
Rye.....	4	—	—	—	—
Mixed Grain.....	8	—	—	37	—
Corn.....	—	—	—	—	—
Buckwheat.....	—	—	—	—	—
Peas.....	—	—	—	—	—
Soybeans.....	—	—	—	—	—
Sunflower Seeds.....	—	—	—	—	—
Screenings.....	418	2	4	1,019	103
Rapeseed.....	70	—	—	—	—
Totals.....	2,529	14	44	2,465	134

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EASTERN DIVISION

Table E-10.—Carlot Inspections Eastern Grain, Crop Year 1954-55, by Grains and Points

Grain	Montreal	Toronto	Chatham	Total
	Carlots			
Wheat.....	8	399	2,353	2,760
Oats.....	—	—	10	10
Barley.....	19	79	554	652
Rye.....	—	1	36	37
Buckwheat.....	2	—	2	4
Corn.....	2	1	5,048	5,051
Beans.....	1	—	233	234
Soybeans.....	2	182	1,573	1,757
Flaxseed.....	—	12	—	12
Totals.....	34	674	9,809	10,517

Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1954-55, by Grains, Grades and Points

Grade	Montreal	Toronto	Chatham	Total
	Carlots			
WHEAT				
1 Canada Eastern White Winter	—	40	1,048	1,088
2 Canada Eastern White Winter	5	93	345	443
3 Canada Eastern White Winter	—	2	13	15
1 Canada Eastern Red Winter	—	—	4	4
2 Canada Eastern Red Winter	—	—	1	1
1 Canada Eastern Mixed Winter	—	9	576	585
2 Canada Eastern Mixed Winter	2	5	85	92
3 Canada Eastern Mixed Winter	—	—	4	4
Tough	—	228	173	401
Smutty	1	11	18	30
Damp	—	3	2	5
Sample	—	8	69	77
Condemned	—	—	15	15
Totals, Wheat	8	399	2,353	2,760

OATS

2 Canada Eastern White.....	—	—	1	1
3 Canada Eastern.....	—	—	6	6
4 Canada Eastern.....	—	—	2	2
Sample.....	—	—	1	1
Totals Oats.....	—	—	10	10

BARLEY

2 Canada Eastern Six Row.....	—	2	36	38
3 Canada Eastern Six Row.....	—	61	417	478
4 Canada Eastern.....	16	—	7	23
5 Canada Eastern.....	—	3	2	5
Tough.....	—	8	91	99
Sample.....	3	5	1	9
Totals, Barley.....	19	79	554	652

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Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1954-55, by Grains, Grades and Points —Continued

Grade	Montreal	Toronto	Chatham	Total
	Carlots			

RYE

1 Canada Eastern	—	—	3	3
2 Canada Eastern	—	—	19	19
3 Canada Eastern	—	—	3	3
Tough	—	1	11	12
Totals, Rye	—	1	36	37

BUCKWHEAT

Tough	1	—	1	2
Sample	1	—	1	2
Totals, Buckwheat	2	—	2	4

CORN

Extra Dry 1 Canada Eastern Yellow	—	—	741	741
1 Canada Eastern Yellow	—	1	782	783
Extra Dry 2 Canada Eastern Yellow	—	—	307	307
2 Canada Eastern Yellow	2	—	913	915
Extra Dry 3 Canada Eastern Yellow	—	—	155	155
3 Canada Eastern Yellow	—	—	278	278
Extra Dry 4 Canada Eastern Yellow	—	—	21	21
4 Canada Eastern Yellow	—	—	22	22
Extra Dry 5 Canada Eastern Yellow	—	—	5	5
5 Canada Eastern Yellow	—	—	4	4
Tough	—	—	510	510
Damp	—	—	203	203
Moist	—	—	734	734
Wet	—	—	361	361
Sample	—	—	11	11
Extra Dry 2 Canada Eastern Mixed	—	—	1	1
Totals, Corn	2	1	5,048	5,051

BEANS

1 Canada Eastern Pea	—	—	55	55
2 Canada Eastern Pea	—	—	72	72
3 Canada Eastern Pea	—	—	10	10
4 Canada Eastern Pea	—	—	1	1
Tough	—	—	76	76
Damp	—	—	14	14
Moist	—	—	1	1
Sample	1	—	4	5
Totals, Beans	1	—	233	234

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**Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1954-55, by Grains,
Grades and Points—Concluded**

Grade	Montreal	Toronto	Chatham	Total
Carlots				
SOYBEANS				
1 Canada Yellow.....	—	19	95	114
2 Canada Yellow.....	—	14	182	196
3 Canada Yellow.....	—	13	95	108
4 Canada Yellow.....	—	11	59	70
5 Canada Yellow.....	—	4	29	33
Tough.....	2	68	602	672
Damp.....	—	44	321	365
Moist.....	—	5	112	117
Wet.....	—	—	25	25
Sample.....	—	4	53	57
Totals, Soybeans.....	2	182	1,573	1,757
FLAXSEED				
1 Canada Eastern.....	—	5	—	5
2 Canada Eastern.....	—	1	—	1
Tough.....	—	6	—	6
Totals, Flaxseed.....	—	12	—	12
Totals, All Grains.....	34	674	9,809	10,517

Table E-12.—Cargo Inspections Eastern Grain, Crop Year 1954-55

Grain	West St. John	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.	bu.
Wheat.....	—	114,638	231,015	1,652,211	1,997,864
Barley.....	14,112	—	—	—	14,112
Buckwheat.....	—	83,147	—	—	83,147
Corn.....	—	146,619	—	1,958,983	2,105,602
Soybeans.....	41,877	506,729	202,094	649,109	1,399,809
Totals.....	55,989	851,133	433,109	4,260,303	5,600,534

Table E-13.—Inspections—Eastern Grain in Bins or Warehouses, Crop Year 1954-55

Grain	Quebec	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.	bu.
Wheat.....	19,289	283,234	—	—	302,523
Oats.....	—	18,834	—	—	18,834
Rye.....	—	—	—	1,000	1,000
Corn.....	—	—	—	3,500	3,500
Beans.....	—	—	—	79,371	79,371
Soybeans.....	—	—	—	1,234	1,234
Totals.....	19,289	302,068	—	85,105	406,462

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Table E-14.—Inward and Export Cargoes Sampled and Grade Checked,
Crop Year 1954-55

—	Montreal	Sorel	Three Rivers	Quebec	Halifax and St. John	Total
	bu.	bu.	bu.	bu.	bu.	bu.
EASTERN GRAIN						
Inward.....	3,362,508	—	—	—	—	3,362,508
Export.....	3,164,781	—	—	28,248	135,148	3,328,177
WESTERN GRAIN						
Inward.....	94,823,252	313,755	—	—	—	95,137,007
Export.....	91,212,392	13,335,316	12,836,854	11,449,702	39,088,484	167,922,748
U.S. GRAIN						
Inward.....	6,262,600	—	—	—	—	6,262,600
Export.....	3,623,902	—	—	—	—	3,623,902
SOUTH AFRICAN GRAIN						
Inward.....	936,700	—	—	—	—	936,700
Totals....	203,386,135	13,649,071	12,836,854	11,477,950	39,223,632	280,573,642

Table E-15.—Grain Sampled But Not Inspected, Crop Year 1954-55

—	Montreal	Toronto	Chatham	Total
EASTERN GRAIN				
Carlots.....	35	—	27	62
Inward Cargoes..... (bu.)	193,178	—	—	193,178
Outward Cargoes..... (bu.)	54,164	—	—	54,164
Bin lots..... (bu.)	95,447	—	—	95,447
WESTERN GRAIN				
Carlots.....	37	3	836	876
Export Cargoes..... (bu.)	2,108,079	—	—	2,108,079
Bin lots..... (bu.)	16,563	350,000	—	366,563
FOREIGN GRAIN				
South African..... (bu.)	1,127,150	—	—	1,127,150
U.S.A..... (bu.)	260,314	—	—	260,314
Totals—Cars.....	72	3	863	938
Bushels.....	3,854,895	350,000	—	4,204,895

APPENDIX F

Grain Weighing Branch

J. J. MANSON, *Chief Grain Weighmaster*

Under the provisions of Sections 33 and 124 of the Canada Grain Act, all grain received at or shipped from licensed terminal elevators is weighed by the Board's weighing staffs. The same weighing service is also provided at licensed mill elevators as may be required by licensees.

During the Crop Year 1954-55 weighing service was provided at 47 public, semi-public and private terminal elevators in the Western Division, as well as at 32 mill elevators. In the Eastern Division at 9 eastern elevators, local weighmen were authorized to weigh and issue official weight certificates on truck and car lots shipped from these elevators.

All scales and the equipment for transferring grain from and to the scales in all licensed eastern, terminal and mill elevators were regularly inspected during the crop year under the provisions of section 92 of the Act. In accordance with the special arrangement with the Standards Branch of the Department of Trade and Commerce, all weighing machines in licensed terminal and eastern elevators were inspected, verified and stamped once in the year by the Chief Grain Weighmaster or the Board's scale expert, acting as inspectors under the Weights and Measures Act.

New installations of dust-control equipment in terminal and eastern elevators were inspected to ensure that such equipment did not affect the weighing of the grain received at or shipped from these elevators.

During the crop year under review, 282,500 car lots of grain were weighed on receipt at terminal and mill elevators in the Western Division, and of these car lots, 59,080 or 20.9 per cent were reported leaking, and 5,306 or 1.8 per cent were without seals or had defective seals.

Outturns at Eastern elevators of vessel shipments from the Lakehead were closely checked and investigations made in case of excessive shortages with a view to assessing liability in cases where such could be established.

The stocks in store in 30 terminal elevators and 27 Eastern elevators were weighed over during the crop year in accordance with the provisions of sections 139 and 140 of the Canada Grain Act.

The following tables summarize the grain weighed and other information relating to the work of the Branch.

Table F-1.—Gross Quantities of All Grains Weighed at Terminal Elevators in the Western Division during 1954-55 Crop Year

Point	Wheat	Oats	Barley	Rye	Flaxseed	Canadian Corn	Canadian Buckwheat	U.S.A. Wheat	U.S.A. Barley	U.S.A. Corn	Canadian Miscellaneous
	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lbs.
RECEIPTS											
Fort William-Port Arthur . .	159,114,013	59,907,125	95,684,179	13,653,962	9,636,052	—	201,911	—	—	—	45,395,421
Vancouver-New Westminster	82,752,813	4,202,959	10,474,967	—	335,183	—	—	—	—	—	13,832,185
Victoria	1,805,085	3,194	—	—	—	—	—	—	—	—	—
Prince Rupert	159,399	—	5,160,199	—	—	—	—	—	—	—	—
Churchill	12,526,804	222	—	—	—	—	—	—	—	—	—
Calgary	876,377	4,903	1,269,920	40,069	108,211	—	—	—	—	—	8,520
Edmonton	526,471	145,227	70,884	—	143,555	1,963	—	—	—	10,256	3,680
Lethbridge	6,243	—	—	—	14,219	—	—	—	—	—	—
Moose Jaw	601,794	362,996	7,142	3,335	1,713	—	—	—	—	—	11,341,200
Saskatoon	583,214	66,115	—	—	20,006	—	—	—	—	—	6,392,200
North Transcona	286,488	24,540	63,344	17,746	9,341	—	—	—	—	—	—
Total Receipts	259,238,701	64,717,281	112,730,635	13,715,112	10,268,280	1,963	201,911	—	—	10,256	76,973,206
SHIPMENTS											
Fort William-Port Arthur . .	166,658,502	56,129,482	93,262,243	11,359,745	9,040,174	—	201,578	—	—	—	401,867,284
Vancouver-New Westminster	79,745,536	4,869,880	9,995,428	—	334,451	—	—	—	—	—	105,218,210
Victoria	1,410,714	26,007	845	—	—	—	—	—	—	—	2,854,500
Prince Rupert	314,796	—	4,888,847	—	—	—	—	—	—	—	2,877,560
Churchill	12,245,586	79,293	—	—	—	—	—	—	—	—	6,551,678
Calgary	475,604	5,197	1,440,540	23,504	92,647	—	—	—	—	—	889,570
Edmonton	480,884	149,163	72,406	—	124,626	2,683	—	—	8,421	—	1,547,170
Lethbridge	6,134	—	—	—	12,071	—	—	—	—	—	113,770
Moose Jaw	563,853	362,422	7,142	3,335	1,713	—	—	—	—	—	1,041,040
Saskatoon	1,136,508	70,684	—	—	19,983	—	—	—	—	—	12,178,462
North Transcona	183,774	34,959	64,076	17,746	9,341	—	—	—	—	—	7,600,630
Total Shipments	263,221,891	61,727,087	109,731,527	11,404,330	9,635,006	2,683	201,578	—	—	8,421	542,739,274

BOARD OF GRAIN COMMISSIONERS

Table F-2.—Number of Cars Leaking and Cars with Missing Seals at the Lakehead, at Other Points and at Winnipeg Yards, by Railways for the Crop Year 1954-55

Destination	Cars Leaking		Missing Seals	
	C.N.R.	C.P.R.	C.N.R.	C.P.R.
Lakehead Elevators and Yards.....	18,544	25,487	952	2,103
Other Points.....	6,159	8,890	668	1,583
Totals.....	24,703	34,377	1,620	3,686
Totals Both Railways.....	59,080		5,306	
Winnipeg Yards.....	1,706	2,340	782	1,436

Table F-3.—Number of Cars Weighed at all Points and Percentage of such Cars found Leaking or with Defective Seals, Crop Years 1953-54 and 1954-55

	Number		Percentage of Total	
	1954-55	1953-54	1954-55	1953-54
Cars Weighed in.....	282,500	307,591	100.0	100.0
Inward Cars Leaking.....	59,080	58,324	20.9	18.9
Inward Cars with Missing or Defective Seals....	5,306	5,760	1.8	1.9
Cars Weighed Out.....	27,711	27,596	—	—

Table F-4.—Average Reported Outturn Shortages on Vessel Shipments of Grain from Fort William-Port Arthur to Canadian and United States ports during the 1954-55 Crop Year.

Grain	Bushels Shipped	Shortage in Pounds per 1,000 Bushels
CANADIAN PORTS		
Wheat.....	151,496,110	30.4
Durum Wheat.....	5,093,270	35.3
Oats.....	36,124,846	18.1
Barley.....	62,918,867	31.5
Rye.....	7,744,359	43.8
Flaxseed.....	5,741,783	31.3
Buckwheat.....	128,231	38.6
Sample Grain (in lbs.).....	3,996,400	2.0 lbs. per 1,000 lbs.
Screenings (in tons).....	25,566	1.6 lbs. per ton
UNITED STATES PORTS		
Wheat.....	4,431,606	68.7
Oats.....	10,202,378	49.1
Barley.....	19,291,405	41.0
Rye.....	3,037,563	52.0
Screenings (in tons).....	52,423	—
TOTAL CANADIAN AND UNITED STATES PORTS		
Wheat.....	155,927,716	31.6
Durum Wheat.....	5,093,270	35.3
Oats.....	46,327,224	24.9
Barley.....	82,210,272	35.8
Rye.....	10,781,922	46.1
Flaxseed.....	5,741,783	31.3
Buckwheat.....	128,231	38.6
Sample Grain (in lbs.).....	3,996,400	2.0 lbs. per 1,000 lbs.
Screenings (in tons).....	77,989	.5 lbs. per ton

TRADE AND COMMERCE

APPENDIX G

Statistics Branch

E. E. BAXTER, *Chief Statistician*

The Statistics Branch collects, compiles and publishes basic statistics relating to the storage and handling of grain in and between those Canadian elevators licensed under the Canada Grain Act. It prepares audit statements of the operations of all terminal and eastern elevators, verifies the insurance carried on grain stocks, supplies for review by the Board a detailed analysis of country elevator operations and co-operates with other Board offices in the maintenance of detailed records of principal operations.

During 1954-55 there were no major changes in the form or context of the bulletins issued by the office but a further expansion was recorded in their distribution. A substantial increase was experienced in the volume of special requests for particular statistics on stocks and handlings. This phase of the Branch's operations has been expanding quite rapidly during the past two years as trade and other officials have become more aware of the facilities available and as the new machine accounting equipment has permitted greater flexibility of existing records.

The new equipment has enabled the Branch to expand its services as a records unit for other Branches and this work will be gradually developed in the coming year in furtherance of the program of concentration of clerical work on records within the Statistics office.

In accordance with provisions of the "Inland Water Freight Rates Act 1923" copies of vessel charter confirmations for all lake grain cargoes shipped from Fort William-Port Arthur during the 1955 season of navigation were filed by shippers with this office. Reports covering the cargoes of 999 vessels and a total load of 262.5 million bushels of the five principal grains were received for the season which opened on April 16 and closed on December 15, 1955. Rates on these cargoes were quite steady over the season and all held below the maximum allowable charges under the Act.

All grain audit statements required in connection with the weighup during the year of grain in Terminal and Eastern elevators by the Inspection and Weighing Branches of the Board under authority of sections 139 and 140 of the Canada Grain Act were compiled.

As required under section 102 of the Canada Grain Act, insurance policies on in-store grain have been filed by licensees of public country, semi-public terminal and eastern elevators. These policies have been scrutinized and regular insurance valuation reports checked to ensure adequate protection to owners of stored grain.

In compliance with section 21 of the Canada Grain Act, grain price records for the principal grain markets have been maintained in this office and regular statements covering price statistics have been released throughout the year.

Annual returns covering the operations of 5,075 country elevators during the crop year 1954-55, required under the Board's Regulation No. 17, were checked and tabulated and detailed analytical statements submitted to the Board. A new reporting procedure was instituted for those country elevators completely weighed over.

Certain principal grain statistics for the 1954-55 crop year and the 1955 season of navigation are presented in the tables which follow. The Branch's annual export publication "Canadian Grain Exports—1954-55" was released early in December, 1955. The basic reference statistics covering the 1954-55 crop year will be carried in "Grain Trade of Canada 1954-55", the joint publication of this office and the Agriculture Division of the Dominion Bureau of Statistics.

BOARD OF GRAIN COMMISSIONERS

Table G-1.—Supply and Disposition of Canadian Grain, Crop Year 1954-55

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
SUPPLY					
Carry-over July 31, 1954.....	601,675,202	125,768,957	145,910,370	19,285,477	2,577,712
Production in 1954.....	308,909,000	306,793,000	175,509,000	14,176,000	11,238,000
Total Supply.....	910,584,202	432,561,957	321,419,370	33,461,477	13,815,712
DISPOSITION					
Exported Overseas.....	247,341,580	7,436,954	58,006,659	7,472,577	6,345,378
Exported to U.S.A.....	4,458,495	14,810,535	19,085,619	1,838,833	—
Consumed in Canada*.....	159,797,791	326,436,462	152,896,478	5,671,529	6,236,270
Total Disposition*.....	411,597,866	348,683,951	229,988,756	14,982,939	12,581,648
CARRY-OVER (July 31, 1955)					
On Farms (estimated).....	100,855,000	53,400,000	42,310,000	10,180,000	325,000
In Country, Private Terminal and Mill Elevators.....	228,839,035	17,081,557	33,640,122	3,219,413	105,215
In Public and Semi-Public Ter- minal Elevators.....	66,782,837	7,045,137	9,190,404	3,245,395	244,877
In Store at and Afloat to Eastern Elevators.....	77,046,448	4,245,109	3,862,447	1,081,922	500,534
In Eastern Flour Mills*.....	2,146,000	218,000	101,000	4,000	—
In Transit by Rail—Eastern and Western Divisions.....	22,905,938	1,888,203	2,326,641	657,258	58,438
In Store and in Transit to the United States.....	411,078	—	—	90,550	—
Total in Store July 31, 1955*	498,986,336	83,878,006	91,430,614	18,478,538	1,234,064

*Subject to revision.

TRADE AND COMMERCE

Table G-2.—Production and Producers' Marketings in Western Canada, by Provinces, Crop Year 1954-55

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
PRODUCTION (DBS estimate)					
Manitoba.....	26,000,000	36,000,000	44,000,000	1,479,000	4,000,000
Saskatchewan.....	151,000,000	86,000,000	53,000,000	6,700,000	4,800,000
Alberta and British Columbia..	106,750,000	77,967,000	72,337,000	4,100,000	2,250,000
Totals.....	283,750,000	199,967,000	169,337,000	12,279,000	11,050,000
PRODUCERS' MARKETINGS					
(a) At Country Elevators					
Manitoba.....	24,141,745	13,990,900	34,460,782	1,533,296	3,103,325
Saskatchewan.....	197,481,977	37,245,079	41,269,823	7,439,989	3,696,004
Alberta.....	94,843,416	18,158,566	36,405,333	4,095,665	1,652,731
Totals.....	316,467,138	69,394,545	112,135,938	13,068,950	8,452,060
(b) At Public and Semi-Public Terminals					
Manitoba.....	1,435	1,847	7,548	—	—
Saskatchewan.....	—	—	—	—	—
Alberta.....	1,484	132,895	58,306	—	2,051
Totals.....	2,919	134,742	65,854	—	2,051
(c) At Interior Private and Mill Elevators					
Manitoba.....	797,021	64,787	69,491	—	174,974
Saskatchewan.....	786,582	222,477	82,575	13,141	9,625
Alberta.....	1,545,311	375,683	178,876	77,705	116,553
Totals.....	3,128,914	662,947	330,942	90,846	301,152
(d) Loaded over Platforms					
Manitoba.....	46,174	19,520	5,389	—	4,064
Saskatchewan.....	68,281	2,050	14,517	4,212	32,678
Alberta.....	66,257	7,100	14,995	26,513	—
Totals.....	180,712	28,670	34,901	30,725	36,742
Total Producers' Marketings					
Manitoba.....	24,986,375	14,077,054	34,543,210	1,533,296	3,282,363
Saskatchewan.....	198,336,840	37,469,606	41,366,915	7,457,342	3,738,307
Alberta.....	96,456,468	18,674,244	36,657,510	4,199,883	1,771,335
Totals.....	319,779,683	70,220,904	112,567,635	13,190,521	8,792,005

BOARD OF GRAIN COMMISSIONERS

Table G-3.—Receipts and Shipments of Canadian Grain at Terminal Elevators, Crop Year 1954-55

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Fort William-Port Arthur—					
Receipts	154,256,151	58,539,130	90,608,913	12,954,084	8,481,155
Shipments	166,211,622	55,454,598	89,645,689	10,979,817	8,868,619
Vancouver-New Westminster—					
Receipts	79,959,175	3,969,678	10,273,890	—	318,895
Shipments	78,952,042	4,801,275	9,924,939	—	318,503
Victoria—					
Receipts	1,759,340	3,115	—	—	—
Shipments	1,410,713	26,006	845	—	—
Prince Rupert—					
Receipts	154,138	—	5,083,260	—	—
Shipments	314,796	—	4,888,847	—	—
Churchill—					
Receipts	12,279,682	222	—	—	—
Shipments	12,245,586	79,293	—	—	—
Transcona—					
Receipts	283,575	24,497	63,228	17,746	9,341
Shipments	183,774	34,959	64,076	17,746	9,341
Calgary—					
Receipts	854,140	4,903	1,269,280	40,046	92,646
Shipments	475,604	5,197	1,440,540	23,505	91,249
Edmonton—					
Receipts	511,892	144,859	70,753	—	123,227
Shipments	480,885	149,163	72,406	—	123,227
Lethbridge—					
Receipts	6,243	—	—	—	12,022
Shipments	6,134	—	—	—	11,896
Moose Jaw—					
Receipts	580,957	362,776	7,141	3,335	1,714
Shipments	563,853	362,422	7,141	3,335	1,714
Saskatoon—					
Receipts	552,530	66,081	—	—	19,983
Shipments	1,136,508	70,684	—	—	19,983
Total Receipts	251,197,823	63,115,261	107,376,465	13,015,211	9,058,983
Total Shipments	261,981,517	60,983,597	106,044,483	11,024,403	9,444,532

Table G-4.—Shipments of Foreign Grain from Canadian Elevators into Canadian Consumer Channels, Crop Year 1954-55

From	United States Flaxseed	United States Corn	United States Beans	United States Rice	South African Corn
	bu.	bu.	bu.	bu.	bu.
Eastern Elevators	16,750	2,612,516	826,919	145,584	1,126,051
Fort William-Port Arthur	—	—	—	—	—
Interior Terminals	—	8,421	—	—	—
Interior Private and Mill Elevators	—	999,793	—	—	—
Pacific Coast Elevators	—	—	—	—	—

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Table G-5.—Receipts and Shipments at Eastern Elevators, Crop Year 1954-55

	Receipts	Shipments
	bu.	bu.
Canadian Grain—		
Wheat.....	165,224,432	162,472,568
Oats.....	37,108,914	35,430,709
Barley.....	64,597,168	63,850,144
Rye.....	7,646,992	7,533,424
Flaxseed.....	8,732,414	8,775,330
Corn.....	4,587,626	4,096,903
Beans.....	1,601,371	1,437,005
Buckwheat.....	423,469	420,500
Peas.....	156,077	158,075
Mixed Grain..... (lbs.)	516,295	533,815
Sample Grain..... (lbs.)	23,760,300	16,519,164
United States Grain—		
Flaxseed.....	2,376,010	3,388,370
Corn.....	6,922,321	7,273,437
Beans.....	908,819	826,919
Buckwheat.....	4,974	4,974
Rice.....	145,584	145,584
Other Foreign Grain—		
South African Corn.....	—	1,126,051

Table G-6.—Supply and Disposition of Canadian Grain in United States Positions, Crop Year 1954-55

	Wheat	Oats	Barley	Rye
	bu.	bu.	bu.	bu.
SUPPLY				
In Store and In Transit, U.S.A.....	107,279	—	—	—
Receipts direct from Canada.....	5,299,302	14,810,535	19,606,729	3,090,937
Total Supply.....	5,406,581	14,810,535	19,606,729	3,090,937
DISPOSITION				
Exported.....	35,822	—	—	1,161,554
Returned to Canada.....	501,186	—	521,110	—
Used Domestically.....	4,458,495	14,810,535	19,085,619	1,838,833
Total Disposition.....	4,995,503	14,810,535	19,606,729	3,000,387
In Store and In Transit July 31, 1955..	411,078	—	—	90,550

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Table G-7.—Exports of Canadian Wheat, by Seaboard Sectors, by Months, Crop Year 1954-55

	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via Fort William- Port Arthur direct	Via United States Atlantic Ports	United States Imports ¹		Total All Wheat	Wheat Flour ²	Total Wheat and Wheat Flour
						For Domestic Use	Milling in Bond			
1954	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
August.....	3,928,811	7,460,839	4,275,940	—	—	27,499	157,258	15,850,347	3,380,067	19,230,414
September.....	7,842,596	11,589,989	6,311,593	—	—	46,901	162,463	25,953,542	3,579,246	29,532,788
October.....	6,734,643	11,912,713	1,398,560	—	—	57,934	823,778	20,927,628	3,596,153	24,523,781
November.....	6,496,457	13,663,596	—	—	—	330,548	—	20,490,601	3,494,767	23,985,368
December.....	8,913,483	7,287,564	—	—	—	65,345	65,654	16,332,046	3,586,018	19,918,064
1955										
January.....	7,275,611	7,516,178	—	—	—	334,903	—	15,126,692	2,813,666	17,940,358
February.....	6,716,995	7,385,215	—	—	—	96,194	—	14,198,404	2,700,468	16,898,872
March.....	7,376,038	9,343,224	—	—	—	173,045	—	16,892,307	3,817,179	20,709,486
April.....	5,331,074	7,338,413	—	—	35,822	151,827	—	12,857,136	3,853,184	16,710,320
May.....	4,725,527	10,315,192	—	—	—	401,766	129,692	15,572,177	3,681,958	19,254,135
June.....	7,280,266	11,229,559	—	—	—	1,047,772	—	19,557,597	3,824,316	23,381,913
July.....	7,279,767	9,604,414	259,000	—	—	342,792	43,124	17,529,097	2,185,479	19,714,576
Totals Crop Year 1954-55.....	79,901,268	114,646,896	12,245,093	—	35,822	3,076,526	1,381,969	211,287,574	40,512,501	251,800,075
Totals Crop Year 1953-54.....	113,345,192	76,562,724	10,980,712	142,740	125,606	5,517,413	2,160,739	208,835,126	46,246,280³	255,081,406
5-year average 1949-50 to 1953-54.....	89,474,742	121,369,233	7,888,411	156,645	1,917,070	14,211,518	6,398,212	241,415,831	51,090,335	292,506,166

¹ Compiled from returns of Canadian elevator licensees and shippers and advice from American grain correspondents.

² Canadian Customs returns converted to bushels—unadjusted for time lag.

³ Revised—adjusted to remove effect of time lag in reports made by the Customs.

TRADE AND COMMERCE

Table G-8.—Overseas Exports of Canadian Grain, by Seaboard Sectors, by Grades, Crop Year 1954-55

Grades	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports*	Via Churchill	Via United States Atlantic Ports	Total
	bu.	bu.	bu.	bu.	bu.
WHEAT—					
1 Manitoba Northern.....	4,980,856	8,627,801	798,389	—	14,407,046
2 Manitoba Northern.....	35,913,352	72,086,052	10,222,590	35,822	118,257,816
3 Manitoba Northern.....	28,571,079	24,230,553	1,153,620	—	53,955,252
4 Manitoba Northern.....	5,672,792	1,710,828	70,494	—	7,454,114
No. 5.....	1,189,201	1,713,432	—	—	2,902,633
No. 6.....	999,600	52,000	—	—	1,051,600
Feed.....	—	747	—	—	747
2 C.W. Garnet.....	357,431	—	—	—	357,431
3 C.W. Garnet.....	1,286,086	—	—	—	1,286,086
1 Alberta Red Winter.....	120,400	—	—	—	120,400
2 Alberta Winter.....	452,098	—	—	—	452,098
Other Western.....	358,373	543,810	—	—	902,183
Eastern.....	—	1,729,026	—	—	1,729,026
3 C.W. Amber Durum.....	—	2,934,055	—	—	2,934,055
4 C.W. Amber Durum.....	—	787,077	—	—	787,077
Other Durum.....	—	231,515	—	—	231,515
Totals.....	79,901,268	114,646,896	12,245,093	35,822	206,829,079
OATS—					
2 C.W.....	—	158,136	—	—	158,136
3 C.W.....	7,941	282,918	—	—	290,859
Extra 1 Feed.....	1,035,009	319,172	—	—	1,354,181
1 Feed.....	2,233,847	922,598	—	—	3,156,445
2 Feed.....	37,882	900,404	—	—	938,286
Mixed Feed.....	368,212	553,231	—	—	921,443
Eastern.....	—	5,176	—	—	5,176
Totals.....	3,682,891	3,141,635	—	—	6,824,526
BARLEY—					
3 C.W. Six-Row.....	799,319	520,406	—	—	1,319,725
3 C.W. Two-Row.....	1,087,608	1,829,059	—	—	2,916,667
1 Feed.....	9,861,020	6,278,028	—	—	16,139,048
2 Feed.....	2,499,854	31,910,598	—	—	34,410,452
3 Feed.....	—	651,620	—	—	651,620
Tough 1 Feed.....	—	860,296	—	—	860,296
Tough 2 Feed.....	—	1,020,882	—	—	1,020,882
Tough 3 Feed.....	—	17,062	—	—	17,062
Other Western.....	277,428	374,709	—	—	652,137
Eastern.....	—	18,770	—	—	18,770
Totals.....	14,525,229	43,481,430	—	—	58,006,659
RYE—					
2 C.W.....	—	1,589,221	—	—	1,589,221
3 C.W.....	—	4,720,522	—	1,013,944	5,734,466
Tough 3 C.W.....	—	—	—	147,600	147,600
Eastern.....	—	1,290	—	—	1,290
Totals.....	—	6,311,033	—	1,161,544	7,472,577
FLAXSEED—					
1 C.W.....	239,208	4,667,545	—	—	4,906,753
2 C.W.....	79,205	1,359,420	—	—	1,438,625
Totals.....	318,413	6,026,965	—	—	6,345,378

*Includes clearances of 158,337 bushels barley from Fort William-Port Arthur direct.

BOARD OF GRAIN COMMISSIONERS

Table G-9.—Overseas Exports of Canadian Grain, by Ports, Crop Year 1954-55

Loaded at	Wheat (All varieties)	Oats	Barley	Rye	Flaxseed	Total All Grains
	bu.	bu.	bu.	bu.	bu.	bu.
Vancouver-New Westminster.....	78,176,392	3,682,891	9,636,382	—	318,413	91,814,078
Victoria.....	1,410,080	—	—	—	—	1,410,080
Prince Rupert.....	314,796	—	4,888,847	—	—	5,203,643
Montreal.....	48,729,228	2,564,683	35,180,064	5,296,280	2,772,693	94,542,948
Sorel.....	10,474,028	65,882	1,985,567	719,413	322,629	13,567,519
Three Rivers.....	12,382,855	—	454,000	—	—	12,836,855
Quebec.....	12,940,791	—	—	—	—	12,940,791
St. John.....	2,048,733	—	46,687	—	—	2,095,420
West St. John.....	14,469,033	511,070	4,417,032	295,340	2,025,024	21,717,499
Halifax.....	13,602,228	—	1,239,743	—	906,619	15,748,590
Churchill.....	12,245,093	—	158,337	—	—	12,245,093
Port William-Port Arthur (direct).....	—	—	—	—	—	158,337
Totals—Canadian Ports.....	206,793,257	6,824,526	58,006,659	6,311,033	6,345,378	284,280,853
Albany.....	—	—	—	278,000	—	278,000
New York.....	35,822	—	—	—	—	35,822
Norfolk.....	—	—	—	883,544	—	883,544
Totals—U.S.A. Ports.....	35,822	—	—	1,161,544	—	1,197,366
Totals to Overseas.....	206,829,079	6,824,526	58,006,659	7,472,577	6,345,378	285,478,219
Wheat Flour ¹	40,512,501	612,428	—	—	—	40,512,501
Rollod Oats and Oatmeal ¹	—	14,810,535	19,085,619	1,838,833	—	612,428
U.S.A. Imports ²	4,458,495	—	—	—	—	40,193,482
Grand Totals.....	251,800,075	22,247,489	77,092,278	9,311,410	6,345,378	366,796,630

¹ Canadian Customs Returns—converted to bushels.

² Compiled from returns of Canadian Elevator licensees and shippers and advice from American grain correspondents.

TRADE AND COMMERCE

Table G-10.—Tough and Damp Grain Dried, by Storage Position, Crop Year 1954-55

	Artificial Drying			Natural Drying	Total
	Tough	Damp	Tough and Damp		
	Bushels				
LAKEHEAD					
Wheat.....	1,196,082	463,137	1,659,219	10,164,216	11,823,435
Durum Wheat.....	—	241	241	43,971	44,212
Oats.....	97,606	4,119	101,725	4,695,780	4,797,505
Barley.....	7,930,692	557,171	8,487,863	11,671,905	20,159,768
Rye.....	267,495	4,349	271,844	1,810,096	2,081,940
Flaxseed.....	282,460	55,045	337,505	829,223	1,166,728
Totals.....	9,774,335	1,084,062	10,858,397	29,215,191	40,073,588
PACIFIC COAST					
Wheat.....	490,811	98,024	588,835	3,836,917	4,425,752
Oats.....	112,283	186,063	298,346	164,068	462,414
Barley.....	904,512	1,750	906,262	1,700,101	2,606,363
Totals.....	1,507,606	285,837	1,793,443	5,701,086	7,494,529
INTERIOR					
Wheat.....	248,031	—	248,031	145,502	393,533
Flaxseed.....	—	—	—	3,048	3,048
Totals.....	248,031	—	248,031	148,550	396,581
CHURCHILL					
Wheat.....	—	—	—	797,309	797,309
Totals, All Positions..	11,529,972	1,369,899	12,899,871	35,862,136	48,762,007

Table G-11.—Weighted Average Lake Freight Rates on Canadian Grain from Fort William-Port Arthur, Season of Navigation 1955

Port of Discharge	Wheat	Oats	Barley	Rye	Flaxseed
	(cents per bushel)				
Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	4.055	3.533	3.804	4.240	—
Port Colborne.....	6.124	5.265	5.75	6.295	—
Toronto.....	6.5	5.75	6.0	—	7.279
Kingston.....	8.5	6.627	7.366	—	—
Prescott.....	7.0	6.25	6.5	7.0	—
Montreal.....	13.5	11.346	12.75	13.5	14.5
Montreal via Bay Ports.....	13.5	—	—	—	—
Montreal via Port Colborne.....	13.527	11.261	12.75	13.5	14.5
Montreal via Toronto.....	—	—	12.75	13.5	14.5
Montreal via Kingston.....	13.5	11.392	12.75	13.5	14.5
Montreal via Prescott.....	13.5	11.256	12.75	13.5	15.588
Sorel.....	13.5	11.0	12.75	—	—
Sorel via Port Colborne.....	13.5	11.195	12.75	13.5	14.5
Sorel via Prescott.....	13.5	11.122	12.75	—	14.5
Three Rivers via Bay Ports.....	13.5	—	—	—	—
Three Rivers via Port Colborne.....	13.5	—	12.75	13.5	—
Three Rivers via Toronto.....	13.5	—	12.75	13.5	14.5
Three Rivers via Prescott.....	13.5	—	—	—	—
Quebec.....	13.5	11.262	12.75	—	—
Quebec via Port Colborne.....	13.5	—	—	—	—
Quebec via Toronto.....	—	11.5	12.75	—	—
Quebec via Prescott.....	13.5	11.0	12.75	—	—
Buffalo.....	6.698	4.896	6.129	6.056	—
Chicago.....	6.830	—	—	5.375	—
Detroit.....	—	—	5.418	—	—
Duluth-Superior.....	5.688	—	4.358	4.613	—
Huron.....	6.584	—	—	—	—
Manitowoc.....	—	—	5.420	—	—
Milwaukee.....	6.461	—	5.284	6.0	—
Oswego.....	—	—	10.484	—	—

NOTE—Rates originally quoted in United States Funds have been converted to Canadian currency at the prevailing rates of exchange.

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Table G-12.—Overages and Shortages Disclosed by Weighovers of Grain Stored in PUBLIC TERMINAL Elevators, Crop Year 1954-55

NOTE.—The figures shown in this table represent differences between outstanding registered warehouse receipts and quantities of grain disclosed at weighover.

Date of Weighover	Licensee	Wheat		Oats		Mixed Feed Oats		Barley		Rye		Flaxseed		Corn		Mixed, and Sample Grain	
		Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lb.	lb.
Feb. 7-22.....	CANADIAN GOVERNMENT ELEVATORS																
	Calgary, Alta.....	—	96.6	—	—	—	—	—	804.9	—	18.6	—	6.1	—	—	—	—
Jan. 20-Feb. 4..	Edmonton, Alta...	1,143.7	—	—	561.7	2,143.8	—	195.7	—	—	—	109.7	—	—	7.7	—	—
Jan. 10-19.....	Lethbridge, Alta...	—	1,963.0	—	—	326.8	—	360.2	—	—	—	—	38.9	—	—	24,210	—
	Totals.....	1,143.7	2,059.6	67.3	561.7	2,470.6	—	195.7	1,165.1	—	18.6	109.7	45.0	—	7.7	24,210	—
	Net Totals—Overages.....	—	—	—	—	2,470.6	—	—	—	—	—	64.7	—	—	—	24,210	—
	Shortages.....	915.9	—	494.4	—	—	—	969.4	—	18.6	—	—	—	7.7	—	—	—

Table G-13.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in PUBLIC TERMINAL Elevators, Crop Year 1954-55

Date of Weighover	Licensee	Excess			Deficiency		
		1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Hard	2 C.W. Garnet
		bu.	bu.	bu.	bu.	bu.	bu.
Feb. 7-22.....	CANADIAN GOVERNMENT ELEVATORS						
	Calgary, Alta.....	—	—	—	—	—	—
Jan. 20-Feb. 4..	Edmonton, Alta..	—	119.2	—	—	—	—
Jan. 10-19.....	Lethbridge, Alta..	—	—	—	—	—	—

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Table G-14.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC TERMINAL Elevators, Crop Year 1954-55

Date of Weighover	Licensee	EXCESS				DEFICIENCY							
		1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
	FORT WILLIAM-PORT ARTHUR												
Dec. 13-18, 1954.....	Canadian Consolidated Grain Co. Ltd. Thunder Bay.....	—	—	—	—	—	—	—	91.5	169.4	131.5	—	—
Dec. 7-13, 1954.....	Eastern Terminal Elevator Co. Ltd....	—	—	45,241.1	—	—	—	—	7,591.8	—	42,847.2	—	124.6
Dec. 14-21, 1954.....	Fort William Elevator Co. Ltd.— Elevator "E".....	—	—	—	—	—	—	—	—	—	—	—	—
Dec. 7-8, 1954.....	Lakehead Terminals Ltd.....	—	—	17.9	—	—	—	—	183.8	—	13.6	—	—
	MANTOBA POOL ELEVATORS												
Feb. 14-25, 1955.....	Elevator No. 1.....	—	—	—	—	—	—	—	25.8	1,134.1	5,207.8	—	—
June 13-16, 1955.....	Elevator No. 2.....	—	—	—	—	—	—	—	260.9	3,591.0	1,464.8	—	—
Dec. 16-20, 1954.....	Elevator No. 3.....	—	—	—	—	—	—	—	—	—	—	—	—
May 19-23, 1955.....	Elevator No. 6.....	—	—	—	—	—	—	—	1,350.2	20,054.8	10.3	—	2.6
June 6-8, 1955.....	Elevator No. 9.....	—	—	—	—	—	—	—	301.5	3,424.7	1,752.9	—	—
Jan. 31-Feb. 4, 1955.....	McCabe Grain Co. Ltd.....	—	—	—	—	—	—	—	584.4	12,583.9	10,511.5	—	3.6
Dec. 14-24, 1954.....	National Grain Co. Ltd.....	—	508.1	—	—	—	—	—	—	13,695.8	21,903.5	—	—
Dec. 6-14, 1954.....	Ogilvie Flour Mills Co. Ltd.....	—	201.6	—	—	—	—	—	—	9,055.6	12,215.8	—	—
June 6-13, 1955.....	N. M. Paterson & Sons, Ltd.....	—	2,615.3	—	—	—	—	—	—	7,733.5	10,031.5	—	—
Dec. 20-29, 1954.....	Saskatchewan Wheat Pool— Elevator No. 4.....	—	—	—	—	—	—	—	5,475.6	40,664.3	10,727.7	—	—
Nov. 9-12, 1954.....	Superior Elevator Co. Ltd.....	—	—	2,815.8	—	—	—	—	631.3	—	5,726.0	—	—
	VANCOUVER-NEW WESTMINSTER												
July 4-8, 1955.....	Burrard Terminals Ltd.....	—	—	—	—	—	—	—	1,932.2	5,619.0	6,337.1	—	3.7
Oct. 29-Nov. 2, 1954....	Searle Grain Co. Ltd.....	—	—	—	—	—	—	—	1,348.8	3,080.3	15,658.3	—	804.6
Mar. 29-Apr. 7, 1955.....	United Grain Growers Ltd.— Elevator No. 3 (N.H.B.).....	—	—	—	—	—	—	—	1,505.9	9,400.7	15,757.3	—	313.4

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Table G-14.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC
TERMINAL Elevators, Crop Year 1954-55—Concluded

Date of Weighover	Licensee	EXCESS				DEFICIENCY			
		1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Northern	2 Northern
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
Oct. 8-13, 1954.....	CHURCHILL, MANITOBA National Harbours Board.....	—	—	—	2,735.5	—	—	1,454.9	6,625.2
Mar. 14-25, 1955.....	NORTH TRANSCONA, MANITOBA Eastern Terminal Elevator Co. Ltd.....	—	—	—	—	—	—	174.6	9,627.7
									13,755.0

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Table G-15.—Excesses and Deficiencies in specified Grades of Wheat disclosed by Weighovers of Grain Stored in PRIVATE TERMINAL Elevators, Crop Year 1954-55

Grade of Wheat	Excess	Deficiency
1 Hard.....	—	—
1 Northern.....	—	—
2 Northern.....	—	—
3 Northern.....	—	—
1 C.W. Garnet.....	—	—
2 C.W. Garnet.....	—	—

No wheat of the above grades was handled or in store in the following elevators:

Date of Weighover	Elevator Company	Location
July 31st, 1955.....	Canada Malting Co. Ltd. No. 1.....	Calgary, Alberta
July 29th, 1955.....	Canada Malting Co. Ltd. No. 2.....	Calgary, Alberta
July 29th, 1955.....	Canada Malting Co. Ltd. No. 3.....	Calgary, Alberta
August 20th, 1954.....	Canada Malting Co. Ltd.....	Winnipeg, Manitoba
December 30th, 1954.....	Canada Malting Co. Ltd.....	Port Arthur, Ontario
August 26th, 1954.....	Dominion Malting Co. Ltd.....	Transcona, Manitoba
August 3rd, 1954.....	National Grain Co. Ltd. (D & S).....	Fort William, Ontario.

Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1954-55

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1955			bu.	bu.
Feb. 16-19	COLLINGWOOD Collingwood Terminals Ltd.....	Canada Western Wheat.....	—	4,591.7
		Canada Western Oats.....	—	926.8
		Canada Western Barley.....	—	614.8
		Canada Western Rye.....	—	84.1
		U.S.A. Corn.....	—	341.3
Mar. 3-9	GODERICH Upper Lakes & St. Lawrence Transporta- tion Co. Ltd.....	Canada Western Wheat.....	—	1,521.7
		Canada Western Oats.....	—	916.6
		Canada Western Barley.....	—	350.8
Mar. 22- Apr. 4	HUMBERSTONE Robin Hood Flour Mills Ltd.....	Canada Western Wheat.....	2,000.2	—
		Canada Western Oats.....	—	46.7
		Canada Western Barley.....	—	295.5
		U.S.A. Corn.....	—	142.3
Feb. 10- Mar. 2	KINGSTON Canada Steamship Lines Ltd.....	Canada Western Wheat.....	—	11,205.6
		Canada Western Oats.....	—	1,114.9
		Canada Western Barley.....	—	5,145.0
		Canada Western Rye.....	—	133.1
		Canada Western Flaxseed.....	—	1,086.9
		Canada Western Sample Grain..	—	*3,220
		U.S.A. Flaxseed.....	—	235.2
		U.S.A. Corn.....	—	82.9
Feb. 24- Mar. 7	MIDLAND Canadian National Railways.....	Canada Western Wheat.....	—	18,840.6
		Canada Western Oats.....	—	52.3
		Canada Western Barley.....	—	472.9
		U.S.A. Corn.....	262.9	—
Feb. 1-23	Canada Steamship Lines Ltd.....	Canada Western Wheat.....	—	7,086.3
		Canada Western Oats.....	—	684.7
		Canada Western Barley.....	—	153.6
		Canada Western Rye.....	—	507.3

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Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1954-55—Continued

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1955			bu.	bu.
Mar. 8-15	Midland-Simcoe Elevator Co. Ltd.....	Canada Western Wheat	—	2,958.0
		Canada Western Oats	—	2,790.7
		Canada Western Barley	—	432.8
		U.S.A. Corn	—	165.9
Feb. 21-24	Renown Investments Ltd.....	Canada Western Wheat	—	4.6
		Canada Western Oats	—	31.7
		Canada Western Barley	—	147.2
		Canada Western Rye	—	42.2
Apr. 21-27	MONTREAL Dominion Elevator Ltd.....	U.S.A. Corn	—	590.2
		Canada Western Wheat	—	3,775.4
		Canada Western Oats	—	2,356.7
		Canada Western Barley	—	1,618.4
Jan. 10- Feb. 9	National Harbours Board	Canada Western Mixed Grain	—	*1,900
		Canada Western Screenings	—	*32,640
		U.S.A. Corn	—	117.9
		Canada Western Wheat	—	39,409.4
		Canada Western Oats	—	3,451.7
		Canada Western Barley	—	18,551.4
		Canada Western Rye	—	2,056.8
		Canada Western Flaxseed	—	1,090.0
		Canada Western Buckwheat	—	337.8
		Canada Western Peas	—	99.4
		Canada Western Mixed Grain	*16,430	—
		Canada Western Sample Grain	*4,521	—
		Canada Western Screenings	—	*170
		Canada Western Salvage Grain	—	*360
Feb. 25- Mar. 17	OWEN SOUND Great Lakes Elevator Co. Ltd.....	U.S.A. Flaxseed	—	3,245.5
		U.S.A. Corn	—	4,270.8
		U.S.A. Buckwheat	—	3.1
		U.S.A. Rice	—	9.3
		S.A. Corn	—	687.2
		Canada Western Wheat	—	9,460.2
		Canada Western Oats	—	3,337.9
Feb. 28- Mar. 9	PORT COLBORNE Maple Leaf Milling Co. Ltd.....	Canada Western Barley	—	413.4
		Canada Western Rye	—	13.6
		Canada Western Screenings	—	*26,890
		Canada Western Wheat	—	10,622.1
		Canada Western Oats	—	98.5
Mar. 10-21	National Harbours Board	Canada Western Barley	—	947.3
		Canada Western Rye	—	115.8
		U.S.A. Corn	—	9.4
		U.S.A. Flaxseed	—	2,310.7
		U.S.A. Corn	—	1,378.1
Mar. 16-28	PORT McNICOLL Canadian Pacific Railway Co.	Canada Western Wheat	—	12,485.0
		Canada Western Oats	—	34.5
		Canada Western Barley	—	88.4
Feb. 7-23	PRESCOTT National Harbours Board	Canada Western Wheat	—	8,288.6
		Canada Western Oats	—	2,716.3
		Canada Western Barley	—	8,132.0
		Canada Western Rye	—	481.0
		Canada Western Flaxseed	—	255.5
		Canada Western Buckwheat	—	63.9
		Canada Western Sample Grain	—	*120
		U.S.A. Flaxseed	—	1,020.0
		U.S.A. Corn	—	1,415.8
		S.A. Corn	—	1,054.0

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Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1954-55—Concluded

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1955			bu.	bu.
Feb. 7-25	QUEBEC National Harbours Board.....	Canada Western Wheat.....	—	6,067.3
		Canada Western Oats.....	—	2,319.2
		Canada Western Barley.....	—	2,405.3
		Canada Western Peas.....	—	.7
		Canada Western Screenings.....	—	*420
		U.S.A. Corn.....	—	83.3
Mar. 16- Apr. 23	SARNIA Sarnia Elevator Co. Ltd.....	Canada Western Wheat.....	—	16,143.4
		Canada Western Oats.....	—	4,039.5
		Canada Western Barley.....	—	1,064.6
		Canada Western Flaxseed.....	—	22.3
		U.S.A. Corn.....	—	1,231.7
		U.S.A. Soybeans.....	—	112.5
Mar. 14-29	SOREL North American Elevators Ltd.....	Canada Western Wheat.....	—	10,398.2
		Canada Western Oats.....	—	192.5
		Canada Western Barley.....	—	2,753.8
		Canada Western Rye.....	—	253.2
		Canada Western Screenings.....	—	*220
		U.S.A. Flaxseed.....	—	362.0
Mar. 3-15	TORONTO Toronto Elevators Ltd.....	Canada Western Wheat.....	—	5,609.6
		Canada Western Oat.....	—	4,633.8
		Canada Western Barley.....	—	2,934.4
		Canada Western Flaxseed.....	—	1,288.6
		Canada Western Screenings.....	—	*2,940
		U.S.A. Corn.....	—	2,486.1
Apr. 28- May 5	WALKERVILLE Hiram Walker & Sons Grain Corp. Ltd....	U.S.A. Beans.....	—	2,911.1
		Canada Western Wheat.....	—	2,799.7
		Canada Western Oats.....	—	227.5
		Canada Western Barley.....	—	161.2
		Canada Western Rye.....	737.1	—
		Canada Western Flaxseed.....	—	41.6
Apr. 4-6	HALIFAX National Harbours Board.....	U.S.A. Corn.....	—	1,512.7
		Canada Western Wheat.....	—	7,812.0
		Canada Western Oats.....	—	11.2
		Canada Western Barley.....	—	796.6
		Canada Western Flaxseed.....	—	568.9
		Canada Western Peas.....	—	6.9
Mar. 30- Apr. 1	ST. JOHN Canadian National Railways Co.....	U.S.A. Corn.....	—	32.6
		Canada Western Wheat.....	—	—
Apr. 12-14	WEST ST. JOHN Canadian Pacific Railway Co. Elevator "B".....	Canada Western Barley.....	—	1,335.9
		Canada Western Wheat.....	—	29.2
		Canada Western Oats.....	—	3,076.5
		Canada Western Barley.....	—	131.5
		Canada Western Rye.....	—	1,353.4
		Canada Western Flaxseed.....	—	105.0
Apr. 14-19	Canadian Pacific Railway Co. Elevator "H".....	Canada Western Rye.....	—	10.6
		Canada Western Buckwheat.....	—	2.9
		Canada Western Wheat.....	—	2,439.6
		Canada Western Oats.....	—	188.0
		Canada Western Barley.....	—	1,174.8
		Canada Western Rye.....	—	79.6
		Canada Western Flaxseed.....	—	1,255.0
		Canada Western Buckwheat.....	—	47.1
		Canada Western Peas.....	—	11.8
		Canada Western Screenings.....	—	*260

* Lbs.

APPENDIX H

The Grain Research Laboratory

J. ANSEL ANDERSON, *Chief Chemist*

Section 22 of the Canada Grain Act requires that "the Board shall maintain an efficient and adequately equipped laboratory for research work in relation to grain."

A summary of the Laboratory's investigations for the year 1955 is given below.

QUALITY OF GRAIN OF THE 1954-55 CROP YEAR

Studies of the qualities of spring wheat, durum wheat, barley and flax, moved from country elevators to terminal elevators or industrial plants, shipped from the Lakehead and exported from Canada, were continued during the 1954-55 crop year. Although considerable amounts of wheat carried over in country elevators and on farms were moved during the crop year, average quality reflected mainly the unfavourable conditions to which the 1954 crop was exposed. The rust epidemic reduced bushel weight and a relatively wet season kept the protein content low for the third successive season.

Milling quality of spring wheat was satisfactory, but baking strength, which depends largely on protein content, was well below the long-term average though not inferior to that of the preceding year. Macaroni-making quality of durum wheat was about average. Malting quality of barley was classed as good, though not quite equal to that of the previous year. The quality of high grades of flax was excellent with considerably higher oil content and better drying quality than in 1953-54.

ESTIMATED QUALITY OF 1955 CROPS

The 1955 spring wheat crop was harvested early in generally good weather, and the grain was mostly dry and high in grade; about half the crop will grade No. 2 Northern and about 90% is expected to enter the top three Northern grades. Bushel weight is high, and protein content (13.0%) is higher than it has been since 1951, though still below the long-term average of 13.5%. Milling yield is good, but flour ash is higher than usual though flour colour is better. Gassing power and absorption are both at desirable levels, and doughs are lively and extensible. Baking strength and carrying power are normal for Canadian wheat of 13% protein.

Production of durum wheat in 1955 shifted westward away from the rust area and higher yields brought the largest crop in many years. More than half the crop will grade Extra 4 C.W. Amber Durum, the new commercial grade which provides for the grading of varieties classed as not "equal to Mindum" that were previously eligible for No. 3 C.W. Amber Durum. Macaroni quality is better this year than last; Nos. 1, 2 and 3 C.W. Amber Durum are outstanding and Extra 4 C.W. Amber Durum is well above the quality expected for this grade.

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The new barley crop is high in grade and more than half will enter the malting grades. Malting quality is higher than that of last year's crop with improvements in bushel weight and yield of malt extract. The new crop is similar to last year's barley in nitrogen content and kernel weight, and clean-out losses are lower.

Production of flax in 1955 was the highest on record since 1912 and well over 80% will grade No. 1 C.W. Oil content and iodine value are lower than for the previous crop but about equal to long-time average figures.

BULLETINS AND MAPS

Detailed information of the quality of grades of 1955 crops, presented at two meetings of the Committee on Western Grain Standards, was published for the information of domestic and foreign customers in four crop bulletins and two protein maps.

Because of large carryovers in recent years, the information in the wheat bulletins has been of limited use to overseas buyers who do not know when they will begin to receive new-crop wheat. To overcome this difficulty, publication of a new series of quarterly bulletins on "Canadian Wheat Cargoes" was begun in November. Since the quality of top grades of wheat remains relatively constant, prompt publication of quality data for exports in the previous quarter makes it possible to predict the quality that can be expected in the current quarter. Moreover, by comparing data for the past two or more quarters, any trend in quality can be detected, and it will generally be possible to predict whether this trend is likely to continue. Favourable comments have already been received on the first issue, and the series will be continued with four issues per year.

SERVICE TO THE INSPECTION BRANCH

The Laboratory continued to work closely with the Inspection Branch to provide information and service required in solving various grading problems. Studies were made of the quality of tentative Standard Samples and Standard Export Samples. Special studies were made of midge damage and of glume blotch in wheat to provide guides in grading. A number of individual samples of various grains submitted by the Inspection Branch were analyzed to confirm the presence of possible contaminants and to identify them. The quality and grading problems caused by broken grain in flax was investigated. Supervision of equipment and technique of moisture testing was continued throughout the year, together with studies leading to the increased use of rapid electrical moisture meters. Additional studies looking to the maintenance and possible improvement of uniformity in quality of exports of top grades of wheat were initiated.

SERVICE TO OTHER ORGANIZATIONS

There has been a substantial increase in the Laboratory's services to the Canadian Wheat Board and to the Grain Division of the Department of Trade and Commerce through its liaison with Trade Commissioners and Commercial Secretaries throughout the world. In general, these services have involved comparisons of Canadian wheats of various grades with competing wheats from other countries. Special milling and baking studies have been undertaken as required, and technical information and advice relating to interpretation of quality data have been provided.

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Largely as a result of foreign missions visiting Canada, and of visits to foreign countries by members of the staff, there has also been a substantial increase in direct inquiries addressed to the Laboratory by government officials, milling and other grain companies, and cereal chemists in foreign countries. These inquiries also deal mainly with the problem of assessing quality in grain, and occasionally involve special laboratory studies.

The Laboratory has continued to co-operate with the Department of Agriculture and the National Research Council in studies of new varieties of spring wheat grain sponsored by the Associate Committee on Grain Research. Close contact is also maintained with Barley Breeders through this Committee and by co-operation with the Barley Improvement Institute. The Laboratory has continued to provide the only service on quality evaluation available to Canadian breeders of durum varieties. As in the past, the Laboratory continues to undertake its share of work for the American Association of Cereal Chemists.

GRAIN MISSIONS

During the year, official missions from Pakistan, Great Britain, Japan, South America (Colombia, Ecuador, Peru and Venezuela), Germany and the U.S.S.R., included the Laboratory in their itineraries. In addition, there were other visitors from Great Britain, Germany, Sweden, Switzerland, Pakistan, India, Burma, Japan, Argentina, Chile, Uruguay, New Zealand, Australia, and many visitors from other laboratories and organizations in the United States and Canada.

Under the Colombo Plan, two members of the Pakistan Mission, Mr. Jamil Ahmad Khan and Mr. Arfan Uddin Ahmad, are studying in the Laboratory for a full year in preparation for the establishment of a similar government cereal laboratory in Pakistan.

Dr. G. N. Irvine represented the Laboratory at the International Bread Congress held at Hamburg, Germany. He presented two papers and was also accorded the honour of appointment as chairman of one of the Technical Divisions. Dr. Irvine also visited laboratories, mills, etc., in Germany, Switzerland, France and Great Britain.

RESEARCH INVESTIGATIONS

The immediate objective of the Laboratory's research is to obtain increased knowledge of the various factors that control quality in grain; the ultimate objective is to apply this knowledge in aiding: breeding of better quality varieties; production of higher grade crops; improvement of the grading system; maintenance of quality during shipment, processing and storage; and sale of Canadian grain in all markets. The research is "basic" in the sense that it drives towards an understanding of scientific principles often beyond the periphery of existing knowledge; and "applied" in the sense that the level of knowledge currently achieved is always in use to deal with practical problems.

Research on spring wheat continues to deal mainly with factors affecting the quality of dough. The changes caused in dough by various chemicals and the rates of disappearance of these chemicals, provide an insight into the reactions taking place in the chemical architecture of the dough. Improvements are also being made in equipment for measuring changes in dough properties. Related lines of research deal with the changes in flour during storage and with the absorption by flour of gases and vapours, which relates both to aging of flour during storage and the use of gaseous flour improvers during milling. It may thus be said that a centripetal attack is being made, in a number of different ways, on the key problems of flour and dough chemistry.

TRADE AND COMMERCE

During the past few years, basic research on durum and macaroni-making quality reached a stage at which it provided much needed tools for aiding plant breeders and assessing the quality of grades of each new crop. It therefore seemed feasible to relax basic research in this area and concentrate on applied problems.

In the barley section, further studies along certain lines were hindered by the inadequacy of existing laboratory malting equipment. More advanced equipment, involving closer control of malting conditions and larger samples, is nearing completion. Steep tank and germinator (similar to the Boby Drum) are in operation, and the kiln has been designed for early construction. Completion of this equipment will provide better facilities for both applied studies and basic research. Attention continues to be directed towards a better understanding of the chemical processes whereby relatively flinty barley is transformed into a friable, mealy malt. Factors under study involve enzymes that break down cell walls and the constituents of the walls on which they act.

Research on a variety of other minor projects is also in progress in the various sections of the Laboratory.

ANNUAL REPORT

In accordance with previous practice, a separate detailed report on the work of the Grain Research Laboratory will be published to put on record data on the quality of Canadian grain crops and progress reports on the Laboratory's research.

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APPENDIX I

Canadian Government Elevators

A. E. JACOBSON, *General Manager*

In accordance with the provisions of Section 166 of the Canada Grain Act and Order-in-Council P.C. 1372 of August 19, 1925, the Board manages and operates five interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge and one terminal elevator at Prince Rupert, and manages one terminal elevator at Port Arthur.

In the 1954-55 crop year the interior and Prince Rupert elevators were operated under public terminal elevator licence while the Port Arthur elevator continued under lease to McCabe Grain Company Limited.

HANDLINGS

Receipts and shipments in the crop year 1954-55 were less than in the previous crop year by twenty-six per cent and seventeen per cent respectively. However, the stocks in store at the end of the crop year showed little change. Barley constituted the major portion of the receipts with five million bushels at Prince Rupert and 1.2 millions at Calgary. By elevators, receipts and shipments during the crop year were:

Elevator	Capacity	Stocks August 1, 1954	Net Receipts	Net Shipments	Stocks July 31, 1955
	million bu.	bu.	bu.	bu.	bu.
Moose Jaw	5.50	5,467,087	955,925	938,465	5,484,192
Saskatoon	5.50	5,451,374	869,455	1,453,279	4,867,397
Calgary	2.50	1,247,150	2,261,480	2,036,095	1,472,447
Edmonton	2.35	1,824,891	869,135	837,109	1,855,563
Lethbridge	1.25	1,168,274	18,265	18,030	1,166,957
Prince Rupert	1.25	577,527	5,237,398	5,203,643	594,316
Totals	18.35	15,736,303	10,211,658	10,486,621	15,440,872

CHARGES

Storage and elevation charges were unchanged from the previous crop year. At the interior elevators storage charges were 1/45c per bushel per day. At Prince Rupert the charge was 1/35c per bushel per day. Elevation charges at Prince Rupert were the same as those in effect at the Lakehead and other Pacific Coast terminal elevators but at the interior elevators elevation charges on wheat, oats, barley and corn at 1 1/8c per bushel were lower by 1c and on rye at 1 1/8c per bushel and flax at 2 1/4c per bushel were lower by 1 1/2c per bushel than charges at Lakehead and Pacific terminal elevators.

MAINTENANCE

All elevator equipment and trackage was maintained in good repair. Progress was made on the installation of a dust control system at the Prince Rupert elevator. A new administrative building was completed at Moose Jaw and a similar building was under construction at Saskatoon. Plans and contracts were prepared for improved administrative buildings at Calgary and Edmonton, as well as for

TRADE AND COMMERCE

extensive repairs to the concrete of the buildings and bins at the Edmonton, Lethbridge and Prince Rupert elevators. The scales at the Edmonton and Prince Rupert elevators were completely reconditioned. Such reconditioning will be continued at the other interior elevators.

STAFF

Staff employed as at December 31, 1955, compared with figures at December 31, 1954, is as follows:

	1955		1954	
	Total including Casuals	Casuals	Total including Casuals	Casuals
Winnipeg (Head Office)	8	—	8	—
Moose Jaw	28	2	29	3
Saskatoon	35	12	33	7
Calgary	33	4	34	4
Edmonton	32	6	30	4
Lethbridge	20	1	20	1
Prince Rupert	37	15	44	20
	193	40	198	39

REVENUE AND EXPENDITURE

Revenue and expenditure for the fiscal year 1954-55, compared with the previous fiscal year, were as follows:

	1954-55	1953-54
Revenue	\$1,733,618	\$1,884,064
Expenditure	1,050,920	1,104,990
Surplus	682,698	779,074

For the first nine months of the current fiscal year revenue was \$1,517,299 and expenditure was \$916,458.

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APPENDIX J

Table J-1.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year Ended March 31, 1955

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
WINNIPEG					
Executive.....	96,541 73	8,877 16	7,250 64	14,093 36	126,762 89
Assistant Commissioner....	8,499 96	831 00	1,894 13	376 72	11,601 81
Licence and Bonding.....	21,572 49	2,010 00	—	3,319 51	26,902 00
Registration.....	30,904 69	2,826 96	530 40	1,097 06	35,359 11
Research Laboratory.....	125,986 48	17,338 80	3,797 27	34,858 48	181,981 03
Statistics.....	75,241 17	4,879 44	220 30	19,256 93	99,597 84
Appeal Tribunal.....	5,700 00	584 40	—	1,219 29	7,503 69
Standards Committees.....	—	—	3,130 20	2,280 00	5,410 20
Inspection.....	553,081 94	26,331 40	1,881 19	34,490 65	615,785 18
Weighing.....	52,704 13	1,484 32	871 99	1,833 89	56,894 33
CHURCHILL—					
Inspection.....	16,215 05	—	6,338 48	13,907 12	36,460 65
Weighing.....	5,651 06	—	3,288 46	6,924 73	15,864 25
KEEWATIN—					
Inspection.....	6,000 00	—	—	61 95	6,061 95
Weighing.....	8,040 00	—	—	54 63	8,094 63
SASKATOON—					
Assistant Commissioner....	11,409 96	—	3,080 33	674 31	15,164 60
Inspection.....	34,985 46	877 00	39 55	1,291 78	37,193 79
Weighing.....	24,172 27	—	1,236 93	9 50	25,418 70
MOOSE JAW—					
Inspection.....	31,835 76	1,440 00	63 10	1,040 95	34,379 81
Weighing.....	15,221 03	—	—	13 21	15,234 24
MEDICINE HAT—					
Inspection.....	10,290 00	841 00	—	205 59	11,336 59
Weighing.....	11,492 50	—	—	32 70	11,525 20
LETHBRIDGE—					
Inspection.....	10,050 00	—	—	73 18	10,123 18
Weighing.....	6,630 00	—	—	10 00	6,640 00
CALGARY—					
Assistant Commissioner....	11,559 96	828 00	3,899 64	477 47	16,765 07
Inspection.....	88,064 79	3,001 00	245 25	3,916 88	95,227 92
Weighing.....	39,893 15	314 04	639 95	313 57	41,160 71
Appeal Tribunal.....	5,700 00	420 00	—	1,013 84	7,133 84
EDMONTON—					
Inspection.....	109,298 32	8,754 00	55 25	5,028 20	123,135 77
Weighing.....	11,590 00	—	250 22	168 68	12,008 90
Appeal Tribunal.....	6,540 00	1,170 00	—	511 08	8,221 08
VANCOUVER—					
Inspection.....	158,839 82	6,965 40	—	5,902 75	171,707 97
Weighing.....	165,253 76	2,675 40	1,604 50	3,229 65	172,763 31
Registration.....	9,840 00	1,795 20	—	285 37	11,920 57
FORT WILLIAM—					
Inspection.....	657,475 44	18,492 00	5,029 91	19,737 89	700,735 24
Weighing.....	519,287 75	3,972 00	34,397 04	7,584 42	565,241 21
TORONTO—					
Inspection.....	8,181 82	1,200 00	111 40	434 71	9,927 93
MONTREAL—					
Inspection.....	89,420 98	4,296 00	9,822 08	2,200 17	105,739 23
Weighing.....	4,320 00	939 36	52 80	611 41	5,923 57
Registration.....	13,020 00	1,064 64	—	1,096 79	15,181 43
CHATHAM—					
Inspection.....	37,377 09	1,260 00	14,117 26	2,152 32	54,906 67

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Table J-1.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year Ended March 31, 1955—Concluded

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
PRINCE RUPERT—					
Inspection.....	10,129 03	—	245 54	—	10,374 57
Weighing.....	5,711 71	—	2,252 84	57 75	8,022 30
VICTORIA—					
Inspection.....	7,985 20	—	21 50	7 00	8,013 70
Weighing.....	6,567 69	—	121 00	—	6,688 69
Totals.....	3,128,282 19	125,468 52	106,489 15	191,855 49	3,552,095 35

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Table J-2.—Accrued Revenue, by Point and Branch, Fiscal Year Ended March 31, 1955

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
WINNIPEG—				
Executive.....	—	—	2,055 00	2,055 00
Licence and Bonding.....	29,358 00	—	—	29,358 00
Registration.....	26,226 62	—	4 18	26,230 80
Appeal Tribunal.....	1,563 00	—	—	1,563 00
Research Laboratory.....	—	—	2 17	2 17
Inspection.....	355,366 90	9,469 85	5,171 36	370,008 11
Weighing.....	28,967 02	—	2,056 38	31,023 40
CHURCHILL				
Inspection.....	39,765 79	—	—	39,765 79
Weighing.....	19,882 89	—	—	19,882 89
KEEWATIN				
Inspection.....	5,774 52	—	—	5,774 52
Weighing.....	6,204 21	—	—	6,204 21
SASKATOON—				
Inspection.....	21,345 77	859 11	108 73	22,313 61
Weighing.....	10,984 39	—	—	10,984 39
MOOSE JAW—				
Inspection.....	11,011 18	313 97	28 08	11,353 23
Weighing.....	5,670 55	—	18 88	5,689 43
MEDICINE HAT—				
Inspection.....	9,934 84	391 63	—	10,326 47
Weighing.....	10,778 74	—	309 60	11,088 34
LETHBRIDGE—				
Inspection.....	546 00	98 26	—	644 26
Weighing.....	106 52	—	—	106 52
CALGARY—				
Inspection.....	86,563 02	2,085 26	325 00	88,973 28
Weighing.....	16,808 79	—	1,142 84	17,951 63
Appeal Tribunal.....	1,143 00	—	—	1,143 00
EDMONTON—				
Inspection.....	70,187 79	1,387 21	294 25	71 869 25
Weighing.....	3,608 53	—	—	3,608 53
Appeal Tribunal.....	516 00	—	—	516 00
VANCOUVER—				
Inspection.....	210,308 18	7,358 98	506 74	218,173 90
Weighing.....	166,408 06	—	568 42	166,976 48
Registration.....	8,732 73	—	—	8,732 73
FORT WILLIAM				
Inspection.....	636,247.97	15,183 25	1,121 46	652,552 68
Weighing.....	485,037 51	—	1,016 01	486,053 52
TORONTO				
Inspection.....	5,120 99	70 50	144 16	5,335 65
Weighing.....	335 00	—	—	335 00
MONTREAL—				
Inspection.....	7,117 13	419 09	735 18	8,271 40
Registration.....	9,199 14	—	—	9,199 14
CHATHAM—				
Inspection.....	52,256 21	856 91	1,460 40	54,573 52
PRINCE RUPERT—				
Inspection.....	13,746 08	243 51	44 57	14,034 16
Weighing.....	9,932 67	—	59 70	9,992 37
VICTORIA—				
Inspection.....	3,750 85	88 04	—	3,838 89
Weighing.....	3,025 82	—	—	3,025 82
Totals.....	2,373,532 41	38,825 57	17,173 11	2,429,531 09

(a) Details in Table J-4.

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Table J-3.—Accrued Revenue and Net Expenditure by Points and Branches, Fiscal Year ended March 31, 1955

	Inspection		Weighing		Appeal Tribunals		Registration		License and Bonding		Statistics		Research Laboratory		Grain Standards Committee		Administration		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
REVENUE																				
Winnipeg.....	370,008	11	31,023	40	1,563	00	26,230	80	29,358	00	—	—	2 17	—	—	—	2,055	00	460,240	48
Churchill.....	39,765	79	19,882	89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	59,648	68
Keewatin.....	5,774	52	6,204	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11,978	73
Saskatoon.....	22,313	61	10,984	39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33,298	00
Moose Jaw.....	11,353	23	5,889	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17,042	66
Medicine Hat.....	10,326	47	11,088	34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,414	81
Lethbridge.....	644	26	106	52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	750	78
Calgary.....	88,973	28	17,951	63	1,143	00	—	—	—	—	—	—	—	—	—	—	—	—	108,067	91
Edmonton.....	71,869	25	3,608	53	516	00	—	—	—	—	—	—	—	—	—	—	—	—	75,993	78
Vancouver.....	218,173	90	166,976	48	—	—	8,732	73	—	—	—	—	—	—	—	—	—	—	393,883	11
Fort William.....	652,552	68	486,053	52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,138,606	20
Toronto.....	5,335	65	335	00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5,670	65
Montreal.....	8,271	40	—	—	—	—	9,199	14	—	—	—	—	—	—	—	—	—	—	17,470	54
Chatham.....	54,573	52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	54,573	52
Prince Rupert.....	14,034	16	9,992	37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24,026	53
Victoria.....	3,838	89	3,025	82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,864	71
Totals.....	1,577,808	72	772,922	53	3,222	00	44,162	67	29,358	00	—	—	2 17	—	—	—	2,055	00	2,429,531	09

BOARD OF GRAIN COMMISSIONERS

	Inspection		Weighing		Appeal Tribunals		Registra- tion		License and Bonding		Statistics		Research Labor tory		Grain Standards Committee		Adminis- tration		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
EXPENDITURE																				
Winnipeg.....	615,785	18	56,894	33	7,503	69	35,359	11	26,902	00	99,597	84	181,981	03	5,410	20	138,364	70	1,167,798	08
Churchill.....	36,460	65	15,864	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52,324	90
Keewatin.....	6,061	95	8,094	63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,156	58
Saskatoon.....	37,193	79	25,418	70	—	—	—	—	—	—	—	—	—	—	—	—	15,164	60	77,777	09
Moose Jaw.....	34,379	81	15,234	24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49,614	05
Medicine Hat.....	11,336	59	11,525	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22,861	79
Lethbridge.....	10,123	18	6,640	00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16,763	18
Calgary.....	95,227	92	41,160	71	7,133	84	—	—	—	—	—	—	—	—	—	—	16,765	07	160,287	54
Edmonton.....	123,135	77	12,008	90	8,221	08	—	—	—	—	—	—	—	—	—	—	—	—	143,365	75
Vancouver.....	171,707	97	172,763	31	—	—	11,920	57	—	—	—	—	—	—	—	—	—	—	356,391	85
Fort William.....	700,735	24	565,241	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,265,976	45
Toronto.....	9,927	93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9,927	93
Montreal.....	105,739	23	5,923	57	—	—	15,181	43	—	—	—	—	—	—	—	—	—	—	126,844	23
Chatham.....	54,906	67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	54,906	67
Prince Rupert.....	10,374	57	8,022	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18,396	87
Victoria.....	8,013	70	6,688	69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,702	39
Totals.....	2,031,110	15	951,480	04	22,858	61	62,461	11	26,902	00	99,597	84	181,981	03	5,410	20	170,294	37	3,552,095	35

TRADE AND COMMERCE

Table J-4.—Summary of Operations by Branches, Fiscal Year ended March 31, 1955

	Inspection		Weighing		Appeal Tribunals		Registration		License and Bonding		Statistics		Research Laboratory		Grain Standards Committee		Administration		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
REVENUE																				
Fees.....	1,529,043	22	767,750	70	3,222	00	44,158	49	29,358	00	—	—	—	—	—	—	—	—	2,373,532	41
Samples Sold.....	38,825	57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	38,825	57
Other Revenue.....	6,143	96	5,108	72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11,252	68
Overtime Refunded.....	3,628	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,628	11
Express Charges.....	104	50	48	00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	152	50
Jury Fees.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,055	00
Fines.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refund of Previous Year's Expenses.....	63	36	15	11	—	—	4	18	—	—	—	—	2	17	—	—	—	—	84	82
Totals.....	1,577,808	72	772,922	53	3,222	00	44,162	67	29,358	00	—	—	2	17	—	—	2,055	00	2,429,531	09
EXPENDITURE																				
Salaries.....	1,829,230	70	876,535	05	17,940	00	53,764	69	21,572	49	75,241	17	125,986	48	—	—	128,011	61	3,128,282	19
Rent.....	73,457	80	9,385	12	2,174	40	5,686	80	2,010	00	4,879	44	17,338	80	—	—	10,536	16	125,468	52
Travel.....	37,970	51	44,715	73	—	—	530	40	—	—	220	30	3,797	27	3,130	20	16,124	74	106,489	15
General Expenses.....	68,981	79	16,297	24	2,728	40	1,714	45	533	47	12,761	36	31,444	79	2,280	00	12,212	11	148,953	61
Printing and Stationery.....	21,469	35	4,546	90	15	81	764	77	2,786	04	6,495	57	3,413	69	—	—	3,409	75	42,901	88
Totals.....	2,031,110	15	951,480	04	22,858	61	62,461	11	26,902	00	99,597	84	181,981	03	5,410	20	170,294	37	3,552,095	35

APPENDIX K

Regulations

Regulations in effect December 31, 1955, made in accordance
with the provisions of the Canada Grain Act

Regulation
No.

- 1 Registration and Cancellation of Terminal Elevator Warehouse Receipts.
- 2 Registration and Cancellation of Eastern Warehouse Receipts and Transfer Receipts.
- 3 Plans re Terminal and Eastern Elevators.
- 4 Cleaning Grain and Bins, Terminal Elevators.
- 5 Off Grades for Western Grain.
- 6 Off Grades for Eastern Grain.
- 7 Grades of Screenings.
- 8 Inspection of Samples taken other than at an Inspection Point.
- 9 Appeals from Inspecting Officers to Grain Appeal Tribunals.
- 10 Delivery of Grain to Ocean Vessels at Montreal, Quebec.
- 11 Delivery of Grain to Ocean Vessels at West Saint John, N.B.
- 12 Delivery of Grain to Ocean Vessels at East Saint John, N.B.
- 13 Delivery of Grain to Ocean Vessels at Halifax, N.S.
- 14 Enforcement of Lien by Sale of Grain.
- 15 Drying of Grain.
- 16 Fees.
- 17 Records, Reports and Returns.
- 18 Procedure, Country Elevators.
- 19 Receipt for Grain Delivered to Private Country Elevators and Mill Elevators.
- 20 Maximum Tariff of Charges, Eastern Elevators.
- 21 Maximum Tariff of Charges and Shrinkage Allowance, Country Elevators.
- 22 Maximum Tariff of Charges, Terminal Elevators.
- 23 Applications for Licences and Terms and Conditions under which Licences are Issued.
- 24 Storage in Transit of Grain Grown Outside Canada.
- 25 Tickets and Receipts—Country Elevators.
- 26 Delivery of Treated Grain to Elevators.
- 27 Shipment of Infested Grain.

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CANADA

ANNUAL REPORT

OF THE

Board of Grain Commissioners for Canada

FOR THE YEAR

1956



DEPARTMENT OF TRADE AND COMMERCE

OTTAWA, CANADA

Minister: Rt. Hon. C. D. HOWE, M.P. Deputy Minister: WM. FREDERICK BULL

EDMOND CLOUTIER, C.M.G., O.A., D.S.P.
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Winnipeg, Manitoba,
January 15, 1957.

The Right Honourable C. D. Howe, M.P.,
Minister of Trade and Commerce,
Ottawa, Canada.

Sir:

We beg to submit herewith Report of the Board of Grain Commissioners for Canada for the year 1956 in compliance with Section 23 of the Canada Grain Act.

This report records information and statistics relating to grain handlings for the crop year August 1, 1955 to July 31, 1956, expenditures and revenue for the fiscal year April 1, 1955 to March 31, 1956, and summarizes the major activities of the Board for the 1956 calendar year.

Grain Supplies and Disposition—Crop Year 1955-56

A total of 1,884 million bushels of wheat, oats, barley, rye and flaxseed combined were available in 1955-56 to meet Canada's requirements for export, domestic use and reserve carryover. At August 1st, 1955, 694.9 million bushels of these five grains were held in licensed storage, in transit, and in farm bins across Canada. The improved 1955 crops added to this total a further 494.1 million bushels of wheat, 407.8 million bushels of oats, 252.4 million bushels of barley, 14.8 million bushels of rye and 19.7 million bushels of flaxseed. The combined inward carryover and 1955 production total exceeded the previous year's available supplies by approximately 172.0 million bushels.

Canada exported from these supplies 401.0 million bushels of the five principal grains, wheat flour and milled oats, used a further 694.3 million bushels domestically for human consumption, commercial products, animal feed and seed and held at July 31, 1956, a reserve carryover estimated to include 788.4 million bushels.

The internal forwarding movement from farm to final disposition reflected an increased tempo over the previous year, particularly during the closing months of the 1955-56 season.

Marketings

Canadian farmers delivered 568.7 million bushels of their available holdings and production to the licensed elevator system during 1955-56. These deliveries represented an increase of 40.1 million bushels over the marketing total of 528.6 millions established for the 1954-55 season. The major portion (560.3 millions) was delivered to western country elevators. Prairie farmers supplied a further 6.6 million bushels to other interior elevators and mills and shipped .4 million bushels over loading platforms. Eastern farmers delivered only 1.4 million bushels of the five principal grains to licensed elevators in comparison with a previous average of 6.0 million bushels for recent years.

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Country Elevator Shipments

Western country elevators moved forward a total of 539.8 million bushels of grain during the crop year. This total was only 25.2 millions heavier than the 1954-55 country car loadings because of the light fall and early winter movement. During the last half of the 1955-56 crop year country elevator shipments were nearly 50% heavier than the movement recorded for the closing six months of the previous season—333.3 million bushels compared with 228.8 millions from February 1, 1955 to July 31, 1955.

Terminal Handlings

This same pattern applied to terminal elevator operations at the Lakehead and Pacific Coast. Fort William-Port Arthur terminals unloaded 179,446 cars carrying 333.7 million bushels of grain during the crop year compared with 176,281 cars for 324.8 millions during the previous season. But from February 1, 1956 to the close of the crop year the unloads totalled 209.1 millions against only 136.7 millions over the same six months of 1954-55. At the Pacific Coast unloads rose to 117.8 millions in 1955-56 compared with the 1954-55 inward movement of 101.5 millions, but during the closing months the relationship was 71.1 millions to 44.2 millions unloaded the previous year.

The outward movement was also heavier during the closing half of the season. Lakehead vessel shipments over the crop year at 320.1 millions were only 10.5 millions heavier than the previous crop year's lake traffic; during the closing months of 1955-56 these elevators loaded to vessel 59.0 millions more than they did in the same period of the previous year. Pacific Coast ocean shipments for 1955-56 totalled 113.6 million bushels—a gain of 15.2 millions over their 1954-55 export movement. In contrast to the traditionally heavier winter movement on the Pacific Coast these elevators established a two consecutive-month record of over 30 million bushels in May and June combined. The Port of Churchill with an increase in storage capacity of 2.5 millions expanded its export loadings from 38 boats carrying 13.1 million bushels of wheat in 1955 to 48 boats with a total cargo of 16.3 million bushels of wheat in 1956. A further two vessels carried Mixed Feed Oats and Screenings from Churchill to Montreal during the 1956 season.

Exports

The major factor giving rise to this improved forwarding was the expansion in Canada's grain export trade. Canada exported 401.0 million bushels of the five principal grains, wheat flour and milled oats during the 1955-56 season. These shipments to world markets included 269.2 million bushels of wheat, 38.9 millions of wheat flour, 4.1 millions of oats and milled oats, 64.3 million bushels of barley, 12.9 million bushels of rye and 11.6 million bushels of flaxseed for a combined gain of 34.1 million bushels over the 1954-55 clearance total of 366.9 million bushels. The major increase was in wheat shipments in grain form which were 57.9 millions over the previous year's exports. The 11.6 million bushels of flaxseed exported represented a high level extending back to the 18.0 million bushel export recorded in 1913-14. The export trade showed its greatest strength during the closing months. Over 50% (136.8 millions) of the total wheat clearances moved during the last four months, April to July and 47.1% of the coarse grain exports also cleared during this same period. Canada's exports represented

BOARD OF GRAIN COMMISSIONERS

slightly over 30% of the world trade in the two bread grains, wheat and rye compared with 26.0% in the previous season but only 14.0 percent of the international movement in coarse grains against 20.8% in the year before.

Domestic Usage

Canadians used an estimated 694.3 million bushels of the five principal grains to meet domestic needs for human food, industrial products, seed and animal feed during the 1955-56 season. This consumption was approximately 43.3 millions heavier than the 1954-55 usage. Domestic wheat disappearance was lighter but this was more than offset by increased requirements for oats and barley.

Reserve Carryover

The 788.4 million bushels of the five grains remaining in reserve at July 31, 1956 reflected heavier supplies on farms—299.1 millions compared with 210.7 at the previous year end but only a slight increase in the total volume in licensed storage positions—489.3 millions against 484.2 millions at July 31, 1955. The visible storage included reduced quantities of wheat and rye but heavier stocks of oats and barley than were recorded in elevator storage and in transit between positions at the close of the 1954-55 season shown in brackets — wheat 373.1 (395.8), oats 47.6 (30.2), barley 60.3 (49.0), rye 6.2 (8.3), and flaxseed 2.1 (.9 million) bushels.

Licensing and Bonding

The total licensed storage capacity at July 31, 1956, was 614,678,900 bushels including 14,518,640 bushels in off track annexes. Licences were issued for 5,485 country, terminal, mill and eastern elevators, an increase of 28,441,990 bushels capacity and a decrease of three licences over the same date in 1955. Most of the increase in storage capacity occurred at country elevators and supplementary annexes. This accounted for 24,950,490 bushels.

Assistant Commissioners

The Board's four Assistant Commissioners continued to maintain direct contact with producers and country elevator operators in the Prairie Provinces during 1956. The Assistant Commissioners inspected 676 elevators in Manitoba, 782 in Northern Saskatchewan, 541 in Southern Saskatchewan, and 1,656 in Alberta.

Complaints from country points totalled 38, including 7 carried forward from 1955 as compared with 54 complaints in the previous year.

Disposition of complaints investigated was as follows:

	Manitoba	Saskat- chewan	Alberta	Total
No grounds for complaint.....	1	8	—	9
Settlement effected.....	4	9	—	13
Outside jurisdiction of Board.....	—	2	—	2
Penalty levied against licensee.....	—	3	—	3
Licensee warned.....	—	3	—	3
Complaint withdrawn.....	—	4	1	5
Not yet disposed of.....	—	2	1	3
Totals.....	5	31	2	38

TRADE AND COMMERCE

The Assistant Commissioners, in addition to inspecting elevators and investigating complaints, handled numerous inquiries respecting the general operation of country elevators and continued the practice of discussing the matter of overages which the Board considered excessive, with those country elevator agents concerned. The elevator inspections included checks on scales, equipment, records and posting of Board's Regulations relating to country elevators.

Prosecutions

Five penalties for breaches of the Canada Grain Act and Board Regulations and Orders made under the Act amounting to \$560.00, were levied and collected as follows:

Number of Penalties	Contravention	Amount
1	Section 109, Canada Grain Act.....	\$ 50.00
1	Board Regulation No. 18, Section 6.....	300.00
1	Board Regulation No. 23.....	100.00
2	Improper use of cars authorized out of turn under Section 68 (2), Canada Grain Act.....	110.00

Shortages and Overages, Country Elevators

During the crop year 1955-56, owing to the congested storage situation, only 1,653 out of a total of 5,378 licensed country elevators were weighed over. An analysis of the results disclosed by these audits is given in the following table:

ELEVATORS REPORTING	1955-56	1954-55
Shortages.....	627	414
Neither overages nor shortages.....	2	7
Overages of less than .25%.....	738	563
Overages of .25% to .50%.....	219	198
Overages over .50%.....	67	75
Total elevators weighed over.....	1,653	1,257

Where the Board felt that overages at certain country elevators were excessively high, the agents at these elevators totalling ninety, were summoned to appear before the Board at hearings held at Winnipeg, Saskatoon, Regina and Edmonton. The records of these agents were examined and discussed by members of the Board and the Assistant Commissioners in the presence of superintendents and other senior officials of the elevator companies concerned.

Regulations and Orders

No new regulations were made by the Board during the year but amendments were made to existing regulations as follows:

Regulation No. 26—March 1, 1956—giving the Board's Chief Grain Inspector control over the movement of carlots of grain found to contain kernels treated with poisonous materials.

Regulation No. 5—August 1, 1956—establishing "off grades" for western grown flaxseed containing certain small admixtures.

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Regulation No. 20—August 1, 1956—reducing the maximum additional charge for delivery of grain to trucks at eastern elevators at Montreal, Quebec, Sorel and Three Rivers from one and one-quarter cents to three-quarters of one cent per bushel.

By Order No. 1—1956-57, dated August 1, 1956, the Board extended its suspension of a provision of Regulation No. 23 relating to storage of grain at licensed country elevators.

By Order No. 2—1956-57, dated August 1, 1956, the Board also renewed an order issued on October 19, 1955, in regard to unloading of certain storage cargoes of grain at licensed eastern elevators.

By Order No. 3—1956-57, dated November 30, 1956, the Board directed that all artificially dried grain delivered to a licensed country elevator or shipped over a loading platform be declared as dried grain, and that when such grain is shipped, the notation "DRIED" be carried on the railway bill of lading. This action was taken to ensure that grain dried at country points would be subject to the same milling, baking and other tests made on grain dried at terminal elevators under supervision of Board officials.

Committees on Grain Standards

In accordance with the provisions of Section 25 of the Canada Grain Act, the Board constituted Committees on Western and Eastern Grain Standards for the crop year 1956-57. Personnel of these Committees is given in Appendix A.

Meetings of the Western Committee were convened at Winnipeg on October 18, 1956 and November 15, 1956, at which meetings the Committee selected and settled standard samples for various statutory and commercial grades of Western grain, and standard export samples for various grades of Red Spring and Amber Durum Wheat.

The Eastern Committee met in Toronto on August 21, 1956 and November 22, 1956, and selected and settled standard samples for various statutory grades of Eastern grain.

In cases where suitable samples for any grades were not available, the Committee authorized the continued use of the last standard samples for these grades.

Inspection of Grain

The 1956 crop of Red Spring Wheat in the three Prairie Provinces suffered considerable damage as the result of several heavy frosts during the period between August 15 and 30. The bulk of the crop is expected to grade No. 3 Manitoba Northern and lower account of frost and immature green kernels. The Amber Durum crop contains the same damage, grading mostly No. 4 Canada Western with high weight per bushel.

Oats, Barley and Flaxseed crops yielded satisfactorily and were above average in weight per bushel.

The Tame Mustard Seed crop harvested in Southern Alberta is above average in grade and yield. The predominant variety Oriental has found a ready sale in Japan.

Rapeseed acreage was vastly increased, but yield and quality reduced by frost.

Research

Studies of the quality of the new crops of spring wheat, durum wheat, barley, flax and rapeseed, were completed in good time, and four crop bulletins and two protein maps were published. Continuous surveys were maintained for grain unloaded into all terminal and mill elevators in the western division, and for all cargoes leaving the Lakehead and seaboard ports. Quarterly bulletins were also published to provide comprehensive data on the quality of each main grade of wheat exported from each coast. These bulletins have proved especially valuable in keeping overseas buyers informed of the quality of wheat available for export, and requests for additional copies have followed each release.

Laboratory studies were undertaken for the Inspection Branch on the standard and standard export samples, in relation to moisture testing and more especially to the use of electrical moisture meters, on the effects of frost and other factors affecting the grading of rapeseed, and on various other matters. Studies of the quality of new varieties, and thus of their eligibility for top grades, were undertaken as required, and in co-operation with the Associate Committee on Grain Research (Canada) and the North-west Crop Improvement Association of the United States.

Recent progress in fundamental investigations of the nature of quality in bread wheats has opened up further possibilities for applied research, and it has thus been possible to put more emphasis on this phase of the Laboratory's responsibilities. Studies of durum wheats, which were well advanced, have been temporarily curtailed to release staff for other work. New malting equipment, designed and built during the last two or three years, is now in successful operation, and provides improved and larger scale facilities for studies of varieties and for basic research.

The Laboratory's program of research and service studies was reviewed in April by a committee appointed at the Board's request, by the National Research Council. Dr. E. W. R. Steacie, President of the Council, was Chairman, with Dr. A. G. McCalla, Dean, Faculty of Agriculture, University of Alberta, as Vice-Chairman, Dr. W. P. Thompson, President, University of Saskatchewan, Dr. W. H. Cook, Director, Division of Applied Biology, National Research Council, Ottawa, Dr. K. W. Neatby, Director, Science Service, Canada Department of Agriculture, Ottawa, Dr. G. A. Ledingham, Director, Prairie Regional Laboratory, Saskatoon, and Mr. A. W. Alcock, Chief Chemist, Purity Flour Mills Limited, Winnipeg, as the remaining members. Further expansion of the Laboratory has been recommended as a result of this review.

The work of the Grain Research Laboratory is dealt with in greater detail in Appendix H.

Weighing of Grain

The Weighing Branch of the Board, in addition to providing its usual weighing services, investigated complaints received by the Board on vessel and car outturn shortages in an effort to determine the cause, and where possible, assign the liability. Regular scale inspections were made at terminal and eastern elevators by the Board's scale inspector and where, in the opinion of the Board, outturn weights appeared unsatisfactory, special tests and inspections were made. Details of the work of this Branch are given in Appendix F.

BOARD OF GRAIN COMMISSIONERS

Weighover of Stocks, Terminal and Eastern Elevators

Members of the Board's Weighing and Inspection staffs in accordance with the provisions of Sections 139 and 140 of the Canada Grain Act, weighed over 33 terminal and 28 eastern elevators during the 1955-56 crop year.

Deferments into the 1956-57 crop year were made at 3 Canadian Government Elevators, 5 terminal elevators at the Lakehead, 4 terminal elevators at other points, and at 2 eastern elevators. Four of these deferred weighovers were carried out before the end of the 1956 calendar year. The deferments were granted to avoid a tie-up in operations of elevators concerned with the movement of grain for export commitments.

Tables G-12 to G-16 of Appendix G contain the results of the 61 weighovers carried out in 1955-56 crop year.

Terminal and Eastern Complaints

In 1956 the Board directed the investigation of 67 complaints regarding the handling of grain at terminal elevators and shipments to Eastern Canada. The majority of the complaints related to reports of outturn shortages. There were 31 complaints on vessel shipments from Fort William and Port Arthur to Eastern Canadian and U.S.A. elevators; 31 on shipments between licensed eastern elevators; 3 on carlot shipments into and out of Fort William and Port Arthur; 1 on charges made for services at an eastern elevator, and 1 on delivery slips issued by eastern elevators.

These complaints were disposed of as follows:

	Weight	Miscellaneous
No cause of reported discrepancy found.....	55	—
No grounds for complaint.....	—	1
Settlement effected.....	8	1
Net yet disposed of.....	2	—
Totals.....	65	2

Complaints on Export Shipments

A total of 46 complaints relating to overseas shipments including three brought forward from 1955, were handled by the Board and its officials. All but seven of these complaints concerned outturn weights at overseas destinations. The remaining complaints questioned the quality of the cargoes received.

Disposition of these complaints was as follows:

	Quality	Weight
No cause of reported discrepancy found.....	—	37
No grounds for complaint.....	7	—
Complaint withdrawn.....	—	1
Not yet disposed of.....	—	1
Totals.....	7	39

TRADE AND COMMERCE

Statistics

Statistics relating to Canadian grain movement collected and compiled by the Board's Statistics Branch are presented in Appendix G of this Report.

Information Program

The Board of Grain Commissioners in 1953 in collaboration with the Exhibition Branch of the Department of Trade and Commerce, prepared an educational exhibit for display at the larger agricultural fairs throughout Western Canada. This exhibit was designed to outline the organization and work of the Board with particular reference to the provisions of the Canada Grain Act which affect the farmer. The work of the Inspection Branch was emphasized and the various grades of grain were placed on display. In addition, the exhibit included some of the equipment of the Research Laboratory together with an exhibit of loaves of bread baked from both statutory and other grades of wheat. The Board's film, "Grain Handling in Canada", was later substituted for the Laboratory equipment and shown in connection with the exhibit.

In 1956, the exhibit was shown at the Agricultural Fairs at Portage la Prairie and Dauphin in Manitoba; Swift Current and Nipawin in Saskatchewan, and Red Deer and Wetaskiwin in Alberta. It was also displayed at the Annual Meeting of the United Grain Growers Limited in Calgary.

There was keen interest on the part of both farmers and elevator agents in this exhibit and many questions were asked in regard to the grading of grain. The success of the exhibit depended to a considerable extent on its location. At Swift Current, Nipawin, Red Deer and Dauphin, the display building was conveniently placed in relation to the other exhibits and there was a large attendance of farmers to view the showing of the film to examine the exhibit in detail. But at Portage la Prairie and Wetaskiwin, the exhibit was somewhat out of the way and the attendance of interested farmers was much smaller. It is estimated that approximately 2,500 farmers took time to view the entire film and spend some time going over the exhibit, while a great many more stopped and inspected the exhibit.

The exhibit was staffed by representatives of the Inspection Branch and in most cases, an Assistant Commissioner was in attendance. They answered many questions about grading, the Canada Grain Act and the work of the Board.

The film, "Grain Handling in Canada," which was prepared and released by the National Film Board in 1954, is an educational coloured film which outlines the work of the Board of Grain Commissioners in supervising the handling of grain from the time it leaves the farmer's hands until it enters export channels. It shows the work of the various branches of the Board and has been particularly well received by farmer audiences. In addition to showing it at Agricultural Fairs, it has been used to demonstrate the work of the Board to visiting delegations and foreign students. It has also been shown at eighteen meetings in Manitoba to approximately 700 people and is available through National Film Board libraries.

The Handbook on the Sale and Handling of Grain through a Country Elevator has been completely revised and reprinted, and is now available for distribution to grain firms and other interested parties.

BOARD OF GRAIN COMMISSIONERS

The members of the Board met with official missions and delegations from Belgium, The Netherlands, Norway and Germany, and arranged with the heads of several branches to conduct the visitors through their offices and outline the various functions of the Board.

Other visitors included Provincial Ministers and Deputy Ministers of Agriculture in Canada, Canadian Government Foreign Trade Officers, and students and teachers of the National School of Agriculture, Paris, France.

The Board and its officials also provided training in Canadian grain handling procedures for F.A.O. Fellows from Guatemala and Iraq, and a Colombo Plan Fellow from India.

Assistant Chief Grain Inspector M. J. Conacher, with officials of the Canadian Wheat Board, visited London, Vienna and Rome for conferences with Trade Commissioners in Europe relating to Canadian grain.

Members of the Board and senior officials addressed the annual meetings of producer organizations and meetings of other organizations interested in agriculture in various parts of Canada.

Canadian Government Elevators

During the crop year 1955-56, receipts of grain at the Canadian Government Terminal Elevators operated by the Board at Moose Jaw, Saskatoon, Calgary, Edmonton, Lethbridge and Prince Rupert were 12.4 million bushels, and shipments 14.3 million bushels as compared with 10.2 million and 10.4 million bushels respectively, in the previous crop year.

In the fiscal year 1955-56, revenues exceeded expenditures by \$490,049.

Lake Freight Rates

The maximum rates authorized by the Board's Order No. 20 of September 28, 1954, as follows, remained in effect throughout the 1956 season of navigation:

	Wheat and Rye	Barley	Oats
		—cents—	
(a) From: Fort William or Port Arthur, Ontario			
To: Georgian Bay Ports, Goderich, Sarnia and			
Walkerville.....	5½	5¼	5
Port Colborne.....	7½	7¼	6¾
Toronto.....	8	7½	7¼
Kingston.....	8¾	8¼	8
Prescott.....	9	8½	8¼
Montreal, Sorel, Three Rivers and Quebec City,			
Direct or Transferred at Intermediate Ports.....	16	15¼	14

(b) For grain loaded during the month of December in any year these maximum rates are increased two cents (2c) per bushel to compensate for increased insurance rates.

The average rates charged during the season are given in Table 11 of Appendix G.

Prairie Farm Assistance Act

Under the provisions of Section 11 of the Prairie Farm Assistance Act, the Board continued to collect the one per centum levy on grain purchased by licensees under the Canada Grain Act. During the crop year 1955-56, \$6,239,900.77 was collected. Collections by the Board since the inception of the Prairie Farm Assistance Act now total \$94,990,852.87.

TRADE AND COMMERCE

Organization and Personnel

After fifteen years' service as Chairman of the Board, Chief Commissioner D. G. McKenzie retired on account of age, effective December 9, 1956, and was succeeded by Commissioner R. W. Milner. Mr. G. N. McConnell of McConnell, Man., was appointed as Commissioner to fill the vacancy on the Board.

Mr. John Rayner, Director of Administrative Services, was granted leave of absence for one year to serve in Turkey with the Food and Agriculture Organization of the United Nations.

Dr. J. A. Anderson, Chief Chemist, was elected Vice-President of the International Association for Cereal Chemistry.

The Board's staff at December 31, 1956, totalled 928, an increase of 31 over 1955. The staff of the Canadian Government Elevators numbered 222 at that date, including 63 casuals. This is an increase of 29 during the year.

The following table shows location of the Board's staff broken down by groups:

Point	Ad- minis- trative and Cleri- cal	In- spec- tors and Assist- ants	Sam- plers	Weigh- men and Assist- ants	Track- men	At December 31, 1956		At December 31, 1955	
						Totals	Casuals†	Totals	Casuals†
Montreal.....	10	12	10	1	—	33	7	29	5
Chatham.....	1	3	3	—	—	7	—	10	2
Toronto.....	—	1	1	—	—	2	—	2	—
Fort William.....	32	98	73	90	54	347	6	341	—
Keewatin.....	—	—	2	2	—	4	—	4	—
Winnipeg.....	146*	38	103	10	—	297	8	288	2
Regina.....	2	—	—	—	—	2	—	—	—
Saskatoon.....	2	4	6	4	3	19	1	19	—
Moose Jaw.....	—	4	5	4	1	14	—	14	—
Medicine Hat.....	—	2	1	2	—	5	—	6	—
Lethbridge.....	—	1	2	1	—	4	1	5	1
Edmonton.....	7	7	23	2	2	41	5	40	8
Calgary.....	5	8	19	7	6	45	3	44	2
Vancouver.....	16	28	12	28	13	97	10	85	8
Prince Rupert.....	—	1	2	1	2	6	3	6	4
Victoria.....	—	2	1	2	—	5	1	4	—
Totals.....	221*	209	263	154	81	928	45	897	32

†Casuals included in totals.

*Includes 34 Chemists and Technicians.

Expenditure and Revenue

Total expenditure and accrued revenue of the Board, exclusive of the Canadian Government Elevators, for the fiscal year 1955-56 compared with 1954-55, was as follows:

	1955-56	1954-55
Expenditure.....	\$3,616,657.78	\$3,552,095.35
Revenue.....	2,330,380.66	2,429,531.09

BOARD OF GRAIN COMMISSIONERS

Expenditure for the nine months of the 1956-57 fiscal year to December 31, 1956, totalled \$3,070,293 as against \$2,703,469 for the comparable period during 1955-56. Cash revenue for the same nine-month period amounted to \$2,274,201 as compared with \$1,688,120 in the previous year.

Attached hereto is a series of Appendices which outline in greater detail the work of the Board's Branches.

Respectfully submitted,

R. W. MILNER,
Chief Commissioner

S. LOPTSON,
Commissioner

GEO. N. McCONNELL,
Commissioner

W. J. MacLEOD,
Secretary

TRADE AND COMMERCE

APPENDIX A

**Committee on Western Grain Standards, as at
December 31, 1956**

R. W. Milner, Chief Commissioner, Board of Grain Commissioners
S. Loptson, Commissioner, Board of Grain Commissioners
G. N. McConnell, Commissioner, Board of Grain Commissioners
A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
Dr. J. A. Anderson, Chief Chemist, Grain Research Laboratory
D. E. Ross, Chairman, Grain Appeal Tribunal, Winnipeg
P. J. Marples, Chairman, Grain Appeal Tribunal, Calgary
R. E. Forrester, Chairman, Grain Appeal Tribunal, Edmonton
Dr. D. G. Hamilton, Dominion Cerealist
E. B. Frost, representing the millers of wheat flour

George Bennett.....	}	Representing grain growers in Alberta
W. H. Fairfield.....		
Uri Powell.....		
B. S. Plumer.....		

J. H. Harrison.....	}	Representing grain growers in Saskatchewan
A. P. Gleave.....		
J. Wellbelove.....		
L. L. Gray.....		
N. W. Strelloff.....		

W. J. Parker.....	}	Representing grain growers in Manitoba
R. Barrett.....		
Ray Mitchell.....		

G. Constable, representing grain growers in British Columbia
L. Bell, representing Plant Products Division, Department of Agriculture

**Committee on Eastern Grain Standards, as at
December 31, 1956**

R. W. Milner, Chief Commissioner, Board of Grain Commissioners
S. Loptson, Commissioner, Board of Grain Commissioners
G. N. McConnell, Commissioner, Board of Grain Commissioners
A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
W. G. Thomson, representing Montreal Board of Trade
E. D. Sullivan, representing Toronto Board of Trade
C. Gordon McAuley, representing exporters of grain

F. H. Dunsford.....	}	Representing millers of wheat in the Eastern Division
H. Norman Davis...		

J. R. Heaney	}	Representing grain growers in Ontario
A. H. K. Musgrave)		

G. C. Nichols, representing growers of corn
E. B. Paterson, Additional
John W. Ham, Additional

APPENDIX B

Grain Appeal Tribunals

Winnipeg

D. E. Ross
(Chairman)
E. A. Sangster
Wm. E. McLeod
G. A. Turner
James Gregory
R. C. Sproule
J. F. Lazenby
D. K. Mills
G. I. Rocan
N. Kawka
(Secretary)

Calgary

P. J. Marples
(Chairman)
T. F. Allison
J. Tranter
W. M. Pringle
E. J. Munson
W. G. McLeod
G. C. Arbuthnott
A. Watson
G. R. Deeton

Edmonton

R. E. Forrester
(Chairman)
C. C. Young
M. G. Wood
J. R. MacRae
T. Stickney
D. G. MacKeracher
H. A. Haggarty
C. E. Sage
Ross Saunders

Toronto

John W. Ham
C. H. Coatsworth
R. C. Pratt
C. W. Heimbecker
W. A. Robertson
E. D. Sullivan
K. F. Wadsworth
D. C. Kay, Jr.
(Secretary)

Montreal

P. J. Smith
(Chairman)
A. W. Brown
E. B. Paterson
J. A. Byrne
J. M. Vittie
G. D. Robinson
Mrs. Muriel B. Hunter
(Secretary)

For information on Appeals of Carlot Inspections refer to Appendix E, Table E-7.

APPENDIX C

Licence and Bonding Branch

C. F. Spittle, Licensing Officer

Licences are issued by the Board under the provisions of Section 79 of the Canada Grain Act which section also provides that every applicant for a licence shall furnish security by bond or otherwise for the due performance by the licensee of all obligations imposed upon him by the Act.

The Act provides that no railway company or vessel shall receive any Western grain from any elevator or discharge any such grain into any elevator unless such elevator is licensed.

The Act also provides that, except for contracts for the purchase of grain the consideration payable under which is to be paid in full in cash at the time of the making thereof or contracts for the purchase of grain made on the premises of a recognized grain exchange by or through brokers who are members of such exchange, no person in the Western division may make any contract for the purchase of Western grain by reference to any grade name nor act on behalf of any other person in making such contract on a commission basis, unless he is licensed under the Canada Grain Act as a grain dealer, track buyer or grain commission merchant.

During the crop year 1955-56, 5,555 licences were issued to 112 firms and individuals to handle grain under the Canada Grain Act, or three more than in the previous crop year. In addition, country elevator licensees were authorized to use 430 supplementary storage annexes, comprising flour sheds, coal sheds, skating rinks and other buildings.

On July 31, 1956, with 5,485 elevator licences in force and 402 buildings authorized for supplementary storage, the total licensed storage capacity was 600,160,260 bushels in elevators, and 14,518,640 bushels in supplementary storage annexes to country elevators. In addition, 53 Track Buyers', Commission Merchants' and Grain Dealers' licences were also in force. The following table gives a comparative statement of numbers and classes of licences in force and storage capacity:

Kind of Licence	Licences in force July 31		Licensed storage capacity July 31	
	1956	1955	1956	1955
Country Elevators.....	5,378	5,377	353,884,150	337,199,450
Supplementary Annexes to Country Elevators.....	*	*	14,518,640	6,252,850
Terminals and Mill Elevators.....	77	82	154,093,810	151,938,810
Eastern Elevators.....	30	29	92,182,300	90,845,800
Track Buyers, Commission Merchants and Grain Dealers.....	53	54	†	†
Totals.....	5,538	5,542	614,678,900	586,236,910

*402 buildings at July 31, 1956, and 164 buildings at July 31, 1955.

†These licences do not cover grain storage facilities.

BOARD OF GRAIN COMMISSIONERS

During the crop year, seventeen elevator licences were cancelled, one on account of change in class of operation, three destroyed by fire, two closed down by licensees, and eleven converted into annexes. The authority covering twenty-eight supplementary annexes was also cancelled.

Fifty-three country elevator licences were suspended by the Board for varying periods during rehabilitation and reconstruction of the buildings. Forty-nine of these were subsequently reinstated but four were still under suspension at July 31, 1956.

Guarantee bonds in the amount of \$29,899,686.50 executed by seventeen approved surety companies were deposited with the Board as security under Section 79 of the Canada Grain Act to cover operations of licensees during 1955-56. Four licensees deposited negotiable Government bonds with a par value of \$21,000 in lieu of furnishing the usual form of surety bonds.

At December 1, 1956, at which date essentially all licences were issued for the 1956-57 crop year, there were 5,469 elevator licences in force. In addition, 403 buildings other than elevators were authorized for supplementary storage. The total licensed storage capacity as at December 1, 1956, was 607,097,760 bushels in elevators and 15,079,940 bushels in supplementary annexes, or a total increase of 22,852,740 bushels since December 1, 1955. The total storage capacity by provinces is: Manitoba, 58.5 million; Saskatchewan, 209.4; Alberta, 139.3; British Columbia, 25.0; Ontario, 153.1; and Quebec and the Maritimes, 36.9 million bushels.

Table C-1.—Number and Kind of Licences Issued and Licensed Storage Capacity, as at December 1st Each Year for the Past Five Years

Kind of Licence	1956	1955	1954	1953	1952
NUMBER OF LICENCES					
Public Country Elevator.....	5,354	5,369	5,352	5,326	5,341
Private Country Elevator.....	9	10	10	10	10
Mill Elevator.....	32	33	36	40	38
Public Terminal Elevator.....	5	5	6	6	6
Semi-Public Terminal Elevator.....	34	35	34	35	36
Private Terminal Elevator.....	5	5	7	6	7
Eastern Elevator.....	30	30	29	29	29
Track Buyer.....	21	21	21	21	21
Commission Merchant.....	23	25	25	26	27
Grain Dealer.....	5	7	8	9	9
Totals.....	5,518	5,540	5,528	5,508	5,524
LICENSED CAPACITY					
	thousands of bushels				
Public Country Elevator.....	356,263	343,953	332,454	318,224	306,484
Special Annexes.....	15,080	8,522	5,369	4,411	1,579
Private Country Elevator.....	337	349	349	349	350
Mill Elevator.....	13,451	13,525	13,429	13,495	13,426
Public Terminal Elevator.....	17,100	17,100	18,350	18,350	18,350
Semi-Public Terminal Elevator.....	118,774	116,624	112,873	114,523	108,455
Private Terminal Elevator.....	7,070	7,070	7,295	7,220	7,295
Eastern Elevator.....	94,102	92,182	90,845	84,929	84,930
Totals.....	622,177	599,325	580,964	561,501	540,869

TRADE AND COMMERCE

Table C-2.—Licensed Elevators and Storage as at December 1, 1956

Kind of Elevator	Ontario	Mani- toba	Saskat- chewan	Alberta	British Colum- bia	Quebec and Mari- times	Totals
NUMBER OF ELEVATORS							
Public Country.....	2	700	2,929	1,706	17	—	5,354
Private Country.....	—	3	1	5	—	—	9
Mill.....	3	6	6	10	7	—	32
Public Terminal.....	—	—	2	3	—	—	5
Semi-Public Terminal.....	24	2	—	—	8	—	34
Private Terminal.....	2	2	—	1	—	—	5
Eastern.....	18	—	—	—	—	12	30
Totals.....	49	713	2,938	1,725	32	12	5,469
STORAGE CAPACITY							
thousands of bushels							
Public Country.....	65	46,733	185,814	121,863	1,788	—	356,263
Special Annexes†.....	1,400	495	7,655	5,530	—	—	15,080
Private Country.....	—	75	29	233	—	—	337
Mill.....	1,480	2,050	4,915	4,079	927	—	13,451
Public Terminal.....	—	—	11,000	6,100	—	—	17,100
Semi-Public Terminal.....	90,517	6,000	—	—	22,257	—	118,774
Private Terminal.....	2,435	3,145	—	1,490	—	—	7,070
Eastern.....	57,161	—	—	—	—	36,941	94,102
Totals.....	153,058	58,498	209,413	139,295	24,972	36,941	622,177

†Off-site storage.

Collection of One Per Cent Levy

The collection during the crop year 1955-56 of the one per cent levy made by this office under provisions of the Prairie Farm Assistance Act is recorded at \$6,239,900.77, an increase of \$706,781.14 from collections during the previous crop year.

Table C-3.—Amounts Collected and Grain Purchased under the One Per Cent Levy, Prairie Farm Assistance Act, Crop Year 1955-56

Province	Wheat	Oats	Barley	Rye	Total
	\$	\$	\$	\$	\$
Manitoba.....	442,588.29	74,043.82	204,287.10	15,949.59	736,868.80
Saskatchewan.....	3,056,403.12	232,565.85	442,281.10	74,167.53	3,805,410.60
Alberta.....	1,279,077.71	88,101.43	295,898.64	34,466.42	1,697,544.20
Totals.....	4,778,069.12	394,711.10	942,466.84	124,576.54	6,239,823.60
Amount not allocated to provinces.....					77.17
Total collections Aug. 1, 1955, to July 31, 1956					6,239,900.77
GRAIN PURCHASES					
thousands of bushels					
Manitoba.....	33,002	12,475	22,846	1,719	70,042
Saskatchewan.....	228,042	42,922	54,547	8,097	333,608
Alberta.....	97,356	16,493	37,146	3,889	154,884
Totals.....	358,400	71,890	114,539	13,705	558,534

APPENDIX D

Registration Branch

C. J. Brownscombe, Registrar

Section 127 of the Canada Grain Act requires the operators or managers of Public terminal, Semi-Public terminal and Eastern elevators to issue warehouse receipts for all grain taken into store. Regulations No. 1 and No. 2 made by the Board under Section 15 (22) of the Canada Grain Act require that all such receipts be registered with the Board as to grade and quantity at the time of issue and that these warehouse receipts be surrendered to the Board for registration for cancellation when the grain which they represent has been shipped out.

During the Crop Year 1955-56, registration service was provided for licensees of 5 public terminals, 35 semi-public terminals and 30 eastern elevators at offices maintained by the Board at Montreal, Winnipeg and Vancouver.

Table D-1 of this appendix presents the total bushels, by grains, for which warehouse receipts were registered against unloads of grain and registered for cancellation against shipments of grain together with the averages of these handlings for the past ten years for comparison. In addition, service was provided to licensees for the daily registration and cancellation of splits, consolidations, grade adjustments and re-issue of warehouse receipts to facilitate the handling of grain and this work remained at normal levels throughout the year.

Records were maintained for each licensee in both the Eastern and Western Divisions, by grade, showing the total quantities registered, cancelled or still outstanding daily, while a separate series of records was also maintained to provide the full registration and cancellation particulars for all warehouse receipts issued by these licensees. Certified statements of outstanding warehouse receipt totals and of grain handlings were issued as required for use in connection with the annual weighover of stocks of grain carried out by Board officials at all terminal and eastern elevators.

The total registrations of all grains for elevators in the Western Division show increases of 27.7 million and 33.9 million bushels respectively, for receipts and shipments over those of the previous year, while corresponding increases are noted in comparison to those of the ten-year average. The total bushels registered for elevators in the Eastern Division show a moderate gain over the previous year with a somewhat higher gain over that of the ten-year average, while shipments for this Division show a definite increase over last year's totals and the ten-year average.

Fees for registration service were charged at the rate of 4 cents a thousand bushels in the Western Division and one cent a thousand bushels in the Eastern Division. The increased volume of handlings for registration purposes, as noted for both the Eastern and Western Divisions, is reflected in the total fees collected for both Divisions of \$48,617.53, as compared to the ten-year average of \$44,507.14.

TRADE AND COMMERCE

Table D-1.—Warehouse Receipt Registrations for Receipts and Shipments at Public and Semi-Public Terminal Elevators and Eastern Elevators, by Area and Grain, Crop Year 1955-56 and 10-year Average.

Area	Grain	Crop Year 1955-56		10-Year Average, 1945-46 to 1954-55	
		Registered	Registered for Cancellation	Registered	Registered for Cancellation
—thousands of bushels—					
WESTERN DIVISION— Winnipeg, including Lakehead and Churchill	Wheat.....	192,348	204,483	199,438	200,506
	Oats.....	45,267	46,780	71,194	74,088
	Barley.....	80,564	77,359	63,243	62,746
	Flax.....	14,181	13,360	6,431	6,445
	Rye.....	11,874	13,709	10,090	9,818
	Mixed Grain..	356	341	1,002	657
	Corn.....	—	—	47	58
	Other Grains..	214	214	65	64
INTERIOR ELEVATORS— Calgary, Edmonton, Lethbridge, Moose Jaw and Saskatoon	Wheat.....	5,439	7,860	4,755	4,182
	Oats.....	193	205	683	692
	Barley.....	778	612	1,746	1,743
	Flax.....	501	503	180	179
	Rye.....	67	56	34	31
	Mixed Grain..	2	63	6	21
	Corn.....	13	12	15	12
	Other Grains..	1,075	867	226	225
VANCOUVER AND PRINCE RUPERT AREA	Wheat.....	100,980	99,411	76,466	77,062
	Oats.....	894	1,993	2,863	3,860
	Barley.....	15,250	14,207	7,200	7,080
	Flax.....	671	705	142	150
	Rye.....	397	360	31	32
	Mixed Grain..	6	48	51	50
	Corn.....	—	—	284	285
	Other Grains..	883	881	15	20
WESTERN DIVISION— All Points	Wheat.....	298,767	311,754	280,659	281,750
	Oats.....	46,354	48,978	74,740	78,640
	Barley.....	96,592	92,178	72,189	71,569
	Flax.....	15,353	14,568	6,753	6,774
	Rye.....	12,338	14,125	10,155	9,881
	Mixed Grain..	364	452	1,059	728
	Corn.....	13	12	346	355
	Other Grains..	2,172	1,962	306	309
Totals—All Grains..		471,953	484,029	446,207	450,006
EASTERN DIVISION—	Wheat.....	335,563	352,526	287,421	283,633
	Oats.....	43,043	41,918	46,878	47,379
	Barley.....	72,679	70,521	64,426	64,191
	Flax.....	21,981	21,904	9,761	9,812
	Rye.....	18,478	18,651	7,282	7,222
	Mixed Grain..	316	301	481	461
	Corn.....	12,559	12,609	15,525	15,560
	Screenings...	2,278	2,150	946	958
	Peas.....	13	13	49	55
	Soybeans....	4,586	4,712	1,553	1,542
	Buckwheat....	345	352	247	247
	Other Grains..	171	171	100	99
Totals—All Grains..		512,012	525,828	434,669	431,159

APPENDIX E

Inspection Branch

A. F. Dollery, Chief Grain Inspector

Under Section 32 of the Canada Grain Act, the Grain Inspection Branch in the Western Division samples and grades all grain enroute from country points to terminal and mill elevators or other destinations, at the primary inspection points of Winnipeg, Edmonton and Calgary. All grain is also sampled and graded on delivery to terminal or mill elevators at Saskatoon, Moose Jaw, Medicine Hat and Lethbridge, if such grain has not passed through an inspection point. In addition, inspectors resample and check primary grading of all grain unloaded into terminal and mill elevators at the Lakehead, Churchill, Pacific Coast and interior points, as well as sampling and grading all grain shipped from terminal or mill elevators.

In the Eastern Division, sampling and grading service is provided on request at Chatham and Toronto for eastern grown grain. At Montreal, Quebec, Sorel, Three Rivers, St. John and Halifax, grain loaded into vessels for export is sampled and the grades are checked. Grades of all grain in store in all terminal and eastern elevators weighed over during the crop year are verified by Inspection Branch officials.

In the crop year ended July 31, 1956, inspections of Western grain at primary points totalled 285,521 carlots compared with 278,338 carlots in the previous crop year. This total is approximately the same average as for the past ten years.

The predominant grade in Red Spring Wheat was No. 2 Manitoba Northern with 38.0 per cent of total Red Spring Wheat inspections. With 23.7 per cent grading No. 3 Manitoba Northern and 3.5 per cent grading No. 1 Manitoba Northern, the first three grades totalled 65.2 per cent as compared with 69.1 per cent in the previous crop year. Of the Durum Wheat inspected, 66.8 per cent graded Extra No. 4 C.W. This was a new commercial grade established August 1, 1955. No. 2 C.W. showed a percentage of 11.3 per cent — No. 3 C.W. 4.8 per cent — No. 4 C.W. 9.1 per cent — No. 5 C.W. 1.7 per cent, and No. 6 C.W. 0.3 per cent, of total Amber Durum inspections.

In this year's crop 54.4 per cent of the Oats inspected graded No. 1 Feed compared with 49.2 per cent in the previous year. In the higher grades of No. 3 C.W. and Extra No. 1 Feed the percentages were 21.0 per cent and 13.1 per cent respectively, as compared with 11.2 per cent and 13.6 per cent respectively in the previous year.

Last year the predominant grade in Barley was No. 1 Feed with 22.6 per cent, followed by 3 C.W. 6 Row with 17.0 per cent. This year the situation has been reversed with 3 C.W. 6 Row grading 30.6 per cent and No. 1 Feed grading 22.7 per cent. There was a distinct reduction in the number of cars of Barley grading Tough and Damp this year as compared with last year. In the 1954-55 crop 35.6 per cent were in this category, whereas this year the percentage was only 5.9. In Rye, 32.3 per cent graded 2 C.W. and 46.6 per cent 3 C.W., as compared to the previous crop year, 19.3 per cent and 53.1 per cent respectively. The quality of Flax was exceptionally good this year with 80.8 per cent grading 1 C.W. and 15.9 per cent 2 C.W., or 96.7 per cent of total flax inspections as compared to the previous year of 54.8 per cent and 22.2 per cent respectively.

TRADE AND COMMERCE

Grain inspections on loading to vessels at the Lakehead, Pacific Coast and Churchill terminal elevators totalled 452 million bushels as compared with 424 million bushels in the previous crop year. Export cargoes shipped from St. Lawrence and Atlantic ports, totalling 191 million bushels were sampled and checked for grade at loading as compared with 175 million bushels in the previous crop year. Cargoes received at Montreal totalling 85 millions, were also sampled and grades checked, as compared with 105 million in the previous crop year.

Eastern grown grain sampled and inspected in carlots totalled 11,752 cars of which 10,861 cars were handled by the Chatham office. In the previous crop year the totals were 10,517 and 9,809 respectively. Corn accounted for 6,963 cars.

WESTERN DIVISION

Table E-1.—Primary Carlot Inspections by Grains, Crop Year 1955-56, compared with 1954-55 and 10-year Average 1945-46 to 1954-55

	10-Year Average	1955-56	1954-55	10-Year Average	1955-56	1954-55
	Carlots			Percent of total		
Wheat.....	192,902	190,537	177,293	67.8	66.7	63.8
Oats.....	36,863	21,844	29,420	13.0	7.7	10.5
Barley.....	42,720	54,625	56,633	15.0	19.1	20.3
Rye.....	5,839	6,630	7,593	2.1	2.3	2.8
Flaxseed.....	4,861	10,248	5,834	1.7	3.6	2.1
Mixed Grain.....	595	243	382	.2	0.1	0.1
Corn.....	134	212	362	*	0.1	0.1
Buckwheat.....	49	143	157	*	0.1	*
Screenings.....	463	322	328	.2	0.1	0.1
Rapeseed.....	34	642	173	*	0.2	*
Sunflower Seeds.....	2	—	—	*	—	—
Peas.....	87	57	162	*	*	*
Mustard Seed.....	—	18	—	*	*	*
Soybeans.....	1	—	1	*	*	*
Totals.....	284,550	285,521	278,338	100.0	100.0	100.0

*Less than 0.05%

Table E-2.—Primary Carlot Inspections by Points, Crop Year 1955-56, compared with 1954-55 and 10-year Average 1945-46 to 1954-55

	10-Year Average	1955-56	1954-55	10-Year Average	1955-56	1954-55
	Carlots			Percent of total		
Winnipeg.....	201,494	185,714	188,666	70.8	65.0	67.8
Calgary.....	33,903	40,971	39,930	11.9	14.3	14.3
Edmonton.....	28,586	34,944	25,830	10.0	12.2	9.3
Moose Jaw.....	4,857	4,503	4,697	1.7	1.6	1.7
Saskatoon.....	6,646	7,780	8,463	2.3	2.7	3.0
Lethbridge.....	150	28	40	.1	*	*
Medicine Hat.....	3,226	2,275	2,814	1.1	0.8	1.1
Vancouver.....	1,873	508	685	.7	0.2	0.2
Churchill.....	† 3,815	8,798	7,213	1.4	3.2	2.6
Totals.....	284,550	285,521	278,338	100.0	100.0	100.0

*Less than 0.05%

†Cars inspected during last nine years only.

BOARD OF GRAIN COMMISSIONERS

Table E-3.—Primary Carlot Inspections, Crop Year 1955-56, by Grain and Grades

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT			
1 Manitoba Northern.....	6,239	3.5	—
2 Manitoba Northern.....	68,372	38.0	—
3 Manitoba Northern.....	42,727	23.7	—
4 Manitoba Northern.....	16,229	9.0	—
No. 4 Special.....	142	0.1	—
No. 5.....	18,656	10.4	—
No. 5 Special.....	37	*	—
No. 6.....	5,893	3.3	—
No. 6 Special.....	2	*	—
Feed.....	1,155	0.6	—
Sample.....	558	0.3	—
Smutty.....	186	0.1	—
Rejected.....	7,879	4.4	—
Tough.....	11,916	6.6	—
Damp.....	14	*	—
Condemned.....	2	*	—
Total Red Spring Wheat.....	180,007	100.0	94.4
1 Canada Western Garnet.....	1	0.1	—
2 Canada Western Garnet.....	43	4.0	—
3 Canada Western Garnet.....	649	60.5	—
4 Canada Western Garnet.....	26	2.4	—
Tough Canada Western Garnet.....	336	31.3	—
Rejected Canada Western Garnet.....	18	1.7	—
Total Garnet Wheat.....	1,073	100.0	0.6
1 Canada Western Amber Durum.....	167	2.1	—
2 Canada Western Amber Durum.....	914	11.3	—
3 Canada Western Amber Durum.....	391	4.8	—
Extra 4 Canada Western Amber Durum.....	5,415	66.8	—
4 Canada Western Amber Durum.....	738	9.1	—
5 Canada Western Amber Durum.....	139	1.7	—
6 Canada Western Amber Durum.....	23	0.3	—
Smutty Canada Western Amber Durum.....	2	*	—
Rejected Canada Western Amber Durum.....	158	1.9	—
Tough Canada Western Amber Durum.....	157	1.9	—
Damp Canada Western Amber Durum.....	3	*	—
Sample Canada Western Amber Durum.....	9	0.1	—
Total Amber Durum Wheat.....	8,116	100.0	4.3
1 Canada Western Soft White Spring.....	10	10.5	—
2 Canada Western Soft White Spring.....	65	68.4	—
3 Canada Western Soft White Spring.....	19	20.0	—
4 Canada Western Soft White Spring.....	1	1.1	—
Total Soft White Spring Wheat.....	95	100.0	—
1 Canada Western Mixed Wheat.....	8	7.8	—
2 Canada Western Mixed Wheat.....	6	5.9	—
3 Canada Western Mixed Wheat.....	22	21.6	—
4 Canada Western Mixed Wheat.....	20	19.6	—
5 Canada Western Mixed Wheat.....	32	31.4	—
6 Canada Western Mixed Wheat.....	6	5.9	—
Rejected Canada Western Mixed Wheat.....	6	5.9	—
Tough Canada Western Mixed Wheat.....	2	1.9	—
Total Mixed Wheat.....	102	100.0	0.1

TRADE AND COMMERCE

Table E-3.—Primary Carlot Inspections, Crop Year 1955-56, by Grain and Grades—
Continued

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT—Concluded			
1 Alberta Red Winter.....	181	15.8	—
2 Alberta Winter.....	623	54.5	—
3 Alberta Winter.....	281	24.6	—
4 Alberta Winter.....	29	2.5	—
Smutty Alberta Winter.....	11	1.0	—
Rejected Alberta Winter.....	13	1.1	—
Tough Alberta Winter.....	6	0.5	—
Total Alberta Winter Wheat.....	1,144	100.0	0.6
Total All Wheats.....	190,537	—	100.0

OATS

1 Canada Western.....	2	*
2 Canada Western.....	44	0.2
Extra 3 Canada Western.....	501	2.3
3 Canada Western.....	4,582	21.0
Extra 1 Feed.....	2,862	13.1
1 Feed.....	11,894	54.4
2 Feed.....	1,148	5.3
3 Feed.....	182	0.8
Mixed Feed Oats.....	4	*
Rejected Oats.....	146	0.7
Sample Oats.....	99	0.5
Tough.....	376	1.7
Damp.....	2	*
Mixed Feed Oats Groats.....	1	*
Condemned Oats.....	1	*
Total Oats.....	21,844	100.0

BARLEY

1 Canada Western Six Row.....	1	*
2 Canada Western Six Row.....	2,963	5.4
3 Canada Western Six Row.....	16,724	30.6
4 Canada Western Six Row.....	2,792	5.1
1 Canada Western Two Row.....	3	*
2 Canada Western Two Row.....	285	0.5
3 Canada Western Two Row.....	2,878	5.3
1 Feed.....	12,389	22.7
Extra 2 Feed.....	8,511	15.6
2 Feed.....	3,102	5.7
3 Feed.....	1,075	2.0
Rejected.....	441	0.8
Sample.....	257	0.5
Tough.....	3,187	5.8
Damp.....	17	*
Total Barley.....	54,625	100.0

BOARD OF GRAIN COMMISSIONERS

Table E-3.—Primary Carlot Inspections, Crop Year 1955-56, by Grain and Grades—Cont'd

Grade	Carlots	Percentage
RYE		
1 Canada Western	6	0.1
2 Canada Western	2,144	32.3
3 Canada Western	3,083	46.6
4 Canada Western	495	7.5
Ergoty Rye	394	5.9
Rejected	42	0.6
Tough	463	7.0
Ergot and Other Grains	3	*
Total Rye	6,630	100.0
FLAXSEED		
1 Canada Western	8,283	80.8
2 Canada Western	1,636	15.9
3 Canada Western	184	1.8
4 Canada Western	7	0.1
Rejected	1	*
Sample	48	0.5
Tough	83	0.8
Flax and Broken Grain	6	0.1
Total Flaxseed	10,248	100.0
MIXED GRAIN		
1 Canada Western	37	15.2
2 Canada Western	21	8.6
3 Canada Western	85	35.1
4 Canada Western	7	2.9
Rejected	19	7.8
Sample	51	21.0
Tough	21	8.6
Damp	2	0.8
Total Mixed Grain	243	100.0
CORN		
1 Canada Western Yellow	27	12.7
2 Canada Western Yellow	28	13.2
3 Canada Western Yellow	22	10.4
4 Canada Western Yellow	5	2.4
Tough	12	5.7
Damp	1	0.4
U.S.A. Origin	117	55.2
Total Corn	212	100.0
Buckwheat	143	—
Screenings	322	—
Rapeseed	642	—
Peas	57	—
Mustard Seed	7	—
U.S.A. Mustard Seed	11	—
Grand Total	285,521	—

*Less than 0.05%.

TRADE AND COMMERCE

Table E-4.—Carlots of Tough, Damp and Straight Grain Inspected at Primary Inspection Points, Crop Year 1955-56

Grain	Tough	Damp	Tough and Damp	Straight	Total
Wheat.....	12,417	17	12,434	178,103	190,537
Oats.....	376	2	378	21,466	21,844
Barley.....	3,187	17	3,204	51,421	54,625
Rye.....	463	—	463	6,167	6,630
Flaxseed.....	83	—	83	10,165	10,248
Others.....	33	3	36	1,601	1,637
All Grains.....	16,559	39	16,598	268,923	285,521
PERCENTAGE OF TOTAL					
	%	%	%	%	%
Wheat.....	6.5	*	6.5	93.5	100.0
Oats.....	1.7	*	1.7	98.3	100.0
Barley.....	5.8	*	5.9	94.1	100.0
Rye.....	7.0	—	7.0	93.0	100.0
Flaxseed.....	0.8	—	0.8	99.2	100.0
Others.....	2.0	0.2	2.2	97.8	100.0
All Grains.....	5.8	*	5.8	94.2	100.0

*Less than 0.05%.

Table E-5.—Number of Two Pound Samples "Subject to Grade and Dockage" Inspected Crop Year 1955-56 Compared with the Crop Year 1954-55

Point	1955-56	1954-55
	Number of Samples	
Winnipeg.....	11,110	9,053
Calgary.....	1,271	1,130
Edmonton.....	1,079	817
Moose Jaw.....	66	133
Saskatoon.....	748	715
Lethbridge.....	1,246	907
Medicine Hat.....	55	55
Total.....	15,575	12,810

BOARD OF GRAIN COMMISSIONERS

Table E-6.—Carlots Re-inspected, Crop Year 1955-56

Point	In-spected	Re-in-spected	Un-changed	Grades Raised	Grades Lowered	Dock-age Raised	Dock-age Lowered
			Number of Carlots				
Winnipeg.....	185,714	12,220	5,303	3,141	415	354	3,007
Calgary.....	40,971	5,037	1,391	1,777	95	180	1,594
Edmonton.....	34,944	8,465	3,272	2,003	143	368	2,679
Saskatoon.....	7,780	431	402	29	—	—	—
Moose Jaw.....	4,503	322	303	19	—	—	—
Medicine Hat.....	2,275	93	60	29	3	—	1
Lethbridge.....	28	—	—	—	—	—	—
Vancouver.....	508	14	10	4	—	—	—
Churchill.....	8,798	—	—	—	—	—	—
Totals.....	285,521	26,582	10,741	7,002	656	902	7,281
			Percentage of Re-inspections				
	%	%	%	%	%	%	%
Winnipeg.....	—	100	43.4	25.7	3.4	2.9	24.6
Calgary.....	—	100	27.6	35.3	1.9	3.6	31.6
Edmonton.....	—	100	38.7	23.7	1.7	4.3	31.6
Saskatoon.....	—	100	93.3	6.7	—	—	—
Moose Jaw.....	—	100	94.1	5.9	—	—	—
Medicine Hat.....	—	100	64.5	31.2	3.2	—	1.1
Lethbridge.....	—	100	—	—	—	—	—
Vancouver.....	—	100	71.4	28.6	—	—	—
Churchill.....	—	100	—	—	—	—	—
Totals.....	—	100	40.4	26.3	2.5	3.4	27.4
			Percentage of Total Inspections				
	%	%	%	%	%	%	%
Winnipeg.....	100	6.6	2.8	1.7	0.2	0.2	1.6
Calgary.....	100	12.3	3.4	4.3	0.2	0.4	3.9
Edmonton.....	100	24.2	9.4	5.7	0.4	1.1	7.7
Saskatoon.....	100	5.5	5.2	0.4	—	—	—
Moose Jaw.....	100	7.1	6.7	0.4	—	—	—
Medicine Hat.....	100	4.1	2.6	1.3	0.1	—	—
Lethbridge.....	100	—	—	—	—	—	—
Vancouver.....	100	2.8	2.0	0.8	—	—	—
Churchill.....	100	—	—	—	—	—	—
Totals.....	100	9.3	3.8	2.5	0.2	0.3	2.6

Table E-7.—Summary of Carlot Inspections Appealed, Crop Year 1955-56

Item	Winnipeg		Edmonton		Calgary		Total	
	Cars	Percent	Cars	Percent	Cars	Percent	Cars	Percent
Left as graded.....	685	97.3	331	81.7	423	85.6	1,439	89.8
Grades Raised.....	19	2.7	74	18.3	67	13.6	160	10.0
Grades Lowered.....	—	—	—	—	4	0.8	4	0.2
Totals.....	704	100.0	405	100.0	494	100.0	1,603	100.0
Total Cars Inspected.....							285,521	100.00
Total Appeals.....							1,603	0.56
Total Grades Changed.....							164	0.06

TRADE AND COMMERCE

Table E-8.—Vessel Shipments Inspected, Crop Year 1955-56

Grain	Fort William and Port Arthur	Vancouver	Victoria	Prince Rupert	Churchill	Total
	bu.	bu.	bu.	bu.	bu.	bu.
Wheat.....	183,953,719	95,495,409	2,472,240	—	13,077,845	294,999,213
Oats.....	35,354,423	320,516	—	—	29,412	35,704,351
Barley.....	77,720,522	9,816,510	—	4,415,530	—	91,952,562
Rye.....	13,481,856	353,928	—	—	—	13,835,784
Flaxseed.....	9,638,448	709,331	—	—	—	10,347,779
Buckwheat.....	90,138	—	—	—	—	90,138
*Sample Grain.....	195,887	—	—	—	—	195,887
*Screenings.....	3,688,060	—	—	—	68,000	3,756,060
*Canada						
Rapeseed.....	—	433,150	412,791	—	—	845,941
†Mustard Seed.....	—	11,000	—	—	—	11,000
†U.S.A. Mustard Seed.....	—	19,197	—	—	—	19,197
Totals.....	324,123,053	107,159,041	2,885,031	4,415,530	13,175,257	451,757,912

*In bushels of 50 pounds.

†In bushels of 60 pounds.

Table E-9.—Carlot Shipments ex Terminal Elevators Inspected, Crop Year 1955-56

Grain	Winnipeg	Fort William and Port Arthur	Calgary	Edmonton	Moose Jaw
			Number of Carlots		
Wheat.....	759	4,172	511	737	1,345
Oats.....	724	5,454	26	78	170
Barley.....	416	2,347	435	31	13
Flaxseed.....	66	2,036	192	53	46
Rye.....	8	98	25	2	6
Mixed Grain.....	101	—	29	—	—
Corn.....	5	—	—	—	—
Buckwheat.....	2	63	—	—	—
Peas.....	5	—	—	—	—
Rapeseed.....	—	1	—	99	—
Screenings.....	351	3,214	253	32	85
Sample Grain.....	—	159	—	—	—
Totals.....	2,437	17,544	1,471	1,032	1,665

Grain	Saskatoon	Lethbridge	Medicine Hat	Vancouver, Victoria and Prince Rupert	Churchill
Wheat.....	3,231	1	3	394	—
Oats.....	119	—	8	494	—
Barley.....	37	—	1	176	—
Flaxseed.....	56	4	113	2	—
Rye.....	3	1	—	3	—
Mixed Grain.....	—	—	—	21	—
Corn.....	—	—	—	—	—
Buckwheat.....	—	—	—	—	—
Peas.....	—	—	—	—	—
Rapeseed.....	335	—	—	1	—
Screenings.....	466	—	6	1,253	106
Totals.....	4,247	6	131	2,344	106

BOARD OF GRAIN COMMISSIONERS

EASTERN DIVISION

Table E-10.—Carlot Inspections Eastern Grain, Crop Year 1955-56, by Grains and Points

Grain	Montreal	Toronto	Chatham	Total
	Carlots			
Wheat.....	—	296	1,291	1,587
Oats.....	3	—	4	7
Barley.....	32	2	185	219
Rye.....	—	1	42	43
Buckwheat.....	5	—	2	7
Corn.....	3	23	6,937	6,963
Beans.....	1	—	329	330
Soybeans.....	7	503	2,071	2,581
Flaxseed.....	—	15	—	15
Totals.....	51	840	10,861	11,752

Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1955-56, by Grains, Grades and Points

Grade	Montreal	Toronto	Chatham	Total
		Carlots		
WHEAT				
1 Canada Eastern White Winter.....	—	82	563	645
2 Canada Eastern White Winter.....	—	160	210	370
3 Canada Eastern White Winter.....	—	5	7	12
4 Canada Eastern White Winter.....	—	1	2	3
5 Canada Eastern White Winter.....	—	—	1	1
1 Canada Eastern Mixed Winter.....	—	14	205	219
2 Canada Eastern Mixed Winter.....	—	3	54	57
3 Canada Eastern Mixed Winter.....	—	—	4	4
5 Canada Eastern Mixed Winter.....	—	—	1	1
Tough.....	—	—	134	134
Smutty.....	—	8	11	19
Weevilly.....	—	16	38	54
Infested.....	—	—	5	5
Sample.....	—	2	45	47
Condemned.....	—	5	11	16
Totals, Wheat.....	—	296	1,291	1,587
OATS				
2 Canada Eastern White.....	—	—	2	2
3 Canada Eastern.....	3	—	2	5
Totals, Oats.....	3	—	4	7
BARLEY				
2 Canada Eastern Six Row.....	—	—	3	3
3 Canada Eastern Six Row.....	—	2	160	162
4 Canada Eastern.....	27	—	10	37
5 Canada Eastern.....	5	—	5	10
Tough.....	—	—	4	4
Sample.....	—	—	3	3
Totals, Barley.....	32	2	185	219

TRADE AND COMMERCE

Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1955-56, by Grains, Grades and Points—Continued

Grade	Montreal	Toronto	Chatham	Total
	Carlots			

RYE				
1 Canada Eastern.....	—	—	5	5
2 Canada Eastern.....	—	1	19	20
3 Canada Eastern.....	—	—	10	10
Tough.....	—	—	7	7
Sample.....	—	—	1	1
Totals, Rye.....	—	1	42	43

BUCKWHEAT				
Tough.....	1	—	—	1
Damp.....	2	—	2	4
Sample.....	2	—	—	2
Totals, Buckwheat.....	5	—	2	7

CORN				
Extra Dry 1 Canada Eastern Yellow.....	—	—	883	883
1 Canada Eastern Yellow.....	—	3	3,097	3,100
Extra Dry 2 Canada Eastern Yellow.....	—	1	218	219
2 Canada Eastern Yellow.....	—	7	319	326
Extra Dry 3 Canada Eastern Yellow.....	—	4	29	33
3 Canada Eastern Yellow.....	—	5	54	59
Extra Dry 4 Canada Eastern Yellow.....	—	2	3	5
4 Canada Eastern Yellow.....	3	—	4	7
Extra Dry 5 Canada Eastern Yellow.....	—	—	2	2
5 Canada Eastern Yellow.....	—	—	5	5
Tough.....	—	—	940	940
Damp.....	—	1	846	847
Moist.....	—	—	492	492
Wet.....	—	—	36	36
Sample.....	—	—	4	4
Condemned.....	—	—	4	4
1 Canada Eastern Mixed.....	—	—	1	1
Totals, Corn.....	3	23	6,937	6,963

BEANS				
1 Canada Eastern Pea.....	—	—	66	66
2 Canada Eastern Pea.....	—	—	194	194
3 Canada Eastern Pea.....	1	—	27	28
Tough.....	—	—	39	39
Damp.....	—	—	1	1
Sample.....	—	—	2	2
Totals, Beans.....	1	—	329	330

BOARD OF GRAIN COMMISSIONERS

Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1955-56, by Grains, Grades and Points—Concluded

Grade	Montreal	Toronto	Chatham	Total
		Carlots		
SOYBEANS				
1 Canada Yellow	—	127	503	630
2 Canada Yellow	3	217	441	661
3 Canada Yellow	1	19	63	83
4 Canada Yellow	3	8	16	27
5 Canada Yellow	—	2	5	7
Tough	—	112	791	903
Damp	—	12	211	223
Moist	—	2	28	30
Wet	—	—	2	2
Sample	—	4	10	14
Condemned	—	—	1	1
Totals, Soybeans	7	503	2,071	2,581
FLAXSEED				
1 Canada Eastern	—	15	—	15
Totals, All Grains	51	840	10,861	11,752

Table E-12.—Cargo Inspections Eastern Grain, Crop Year 1955-56

Grain	West St. John	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.	bu.
Wheat.....	—	121,249	80,800	446,563	648,612
Corn.....	430,663	606,394	—	4,659,101	5,696,158
Soybeans.....	150,109	28,000	163,897	1,108,228	1,450,234
Totals.....	580,772	755,643	244,697	6,213,892	7,795,004

Table E-13.—Inspections—Eastern Grain in Bins or Warehouses, Crop Year 1955-56

Grain	West St. John	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.	bu.
Buckwheat.....	—	11,670	—	—	11,670
Corn.....	—	4,371	—	1,500	5,871
Beans.....	—	—	—	85,685	85,685
Soybeans.....	5,670	18,838	—	1,940	26,448
Totals.....	5,670	34,879	—	89,125	129,674

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**Table E-14.—Inward and Export Cargoes Sampled and Grade Checked,
Crop Year 1955-56**

—	Montreal	Sorel	Three Rivers	Quebec	Halifax and St. John	Total
	bu.	bu.	bu.	bu.	bu.	bu.
EASTERN GRAIN						
Inward.....	4,042,159	—	—	—	—	4,042,159
Export.....	3,159,028	—	—	—	387,085	3,546,113
WESTERN GRAIN						
Inward.....	80,467,287	—	488,969	189,334	—	81,145,590
Export.....	100,452,208	15,627,542	14,001,647	15,015,867	42,634,295	187,731,559
U.S. GRAIN						
Inward.....	288,075	—	—	—	—	288,075
Export.....	—	—	—	—	—	—
Totals.....	188,408,757	15,627,542	14,490,616	15,205,201	43,021,380	276,753,496

Table E-15.—Grain Sampled but not Inspected, Crop Year 1955-56

—	Montreal	Toronto	Chatham	Total
EASTERN GRAIN				
Carlots.....	31	1	10	42
Inward Cargoes..... (bu.)	260,568	—	—	260,568
Outward Cargoes..... (bu.)	155,199	—	—	155,199
Bin Lots..... (bu.)	151,756	400,000	16,565	568,321
WESTERN GRAIN				
Carlots.....	59	7	309	375
Inward Cargoes..... (bu.)	192,180	—	—	192,180
Outward Cargoes..... (bu.)	4,758,497	308,302	—	5,066,799
Bin lots..... (bu.)	97,246	210,000	—	307,246
FOREIGN GRAIN—U.S.A.				
Carlots.....	1	—	—	1
Inward Cargoes..... (bu.)	593,340	—	—	593,340
Bin lots..... (bu.)	59,295	—	—	59,295
Totals—Cars.....	91	8	319	418
Bushels.....	6,268,081	918,302	16,565	7,202,948

APPENDIX F

Grain Weighing Branch

J. J. Manson, Chief Grain Weighmaster

Under the provisions of Sections 33 and 124 of the Canada Grain Act, all grain received at or shipped from licensed terminal elevators is weighed by the Board's weighing staffs. The same weighing service is also provided at licensed mill elevators as may be required by licensees.

During the Crop Year 1955-56 weighing services were provided at forty-seven public, semi-public and private terminal elevators in the Western Division and when requested, at twenty-nine mill elevators.

All scales and the equipment for transferring grain to scales on receipt and from scales for shipment in all licensed eastern and terminal elevators and serviced mill elevators were regularly inspected during the crop year under provision of Section 92 of the Act. In accordance with the special arrangement with the Standards Branch of the Department of Trade and Commerce, all scales in licensed terminal and eastern elevators were inspected, verified and stamped by the Board's scale inspector, acting as an inspector under the Weights and Measures Act.

New installations of dust control equipment in terminal and eastern elevators were inspected to ensure that such equipment did not affect the weighing of the grain received at or shipped from these elevators.

During the crop year under review, 293,489 carlots of grain were weighed on receipt at terminal and mill elevators in the Western Division, and of these carlots, 54,349 or 18.5% were reported leaking, and 6,923 or 2.4% were without seals or had defective seals.

Outturns at Eastern elevators of vessel shipments from the Lakehead were closely checked and investigations made in cases of excessive shortages with a view to assessing liability in cases where such could be established.

The stocks in store in thirty-three terminal elevators and twenty-eight Eastern elevators were weighed over during the crop year in accordance with provisions of Sections 139 and 140 of the Canada Grain Act.

The following tables summarize the grain weighed and other information relating to the work of the Branch.

Table F-1.—Gross Quantities of All Grains Weighed at Terminal Elevators in the Western Division during 1955-56 Crop Year

Point	Wheat	Oats	Barley	Rye	Flaxseed	Canadian Corn	Canadian Buckwheat	U.S.A. Corn	Miscellaneous
	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lbs.
R E C E I P T S									
Fort William-Port Arthur	181,844,582	46,313,237	89,027,909	12,156,028	17,464,525	—	214,982	—	46,240,301
Vancouver-New Westminster	100,606,174	902,872	10,875,818	367,814	717,703	—	—	—	36,939,230
Victoria	2,325,498	5,536	1,667	—	—	—	—	—	20,575,010
Prince Rupert	245,682	—	4,646,730	—	189	—	—	—	—
Churchill	15,853,428	411	—	—	—	—	—	—	—
Calgary	887,531	5,661	707,871	58,759	391,629	—	—	—	95,870
Edmonton	331,676	187,237	63,710	1,553	104,820	13,190	—	—	11,283,460
Lethbridge	1,504	—	376	6,316	8,271	—	—	—	—
Moose Jaw	1,614,892	—	6,134	—	3,611	—	—	—	—
Saskatoon	2,775,992	433	—	—	62,289	—	—	—	42,587,640
North Transcona	263,742	28,596	62,924	15,341	12,623	—	3,343	—	1,401,950
Total Receipts	306,750,701	47,443,983	105,393,139	12,605,811	18,765,660	13,190	218,325	—	159,123,461
S H I P M E N T S									
Fort William-Port Arthur	191,428,838	47,915,719	83,497,416	13,696,102	13,600,456	—	214,266	—	454,309,504
Vancouver-New Westminster	96,581,300	1,965,010	10,145,150	359,681	711,698	—	—	—	159,334,740
Victoria	2,475,531	28,080	1,396	—	—	—	—	—	23,297,550
Prince Rupert	354,667	—	4,060,864	—	—	—	—	—	4,039,640
Churchill	12,818,845	29,737	—	—	—	—	—	—	10,641,534
Calgary	773,765	5,097	543,534	48,545	347,235	—	—	—	3,806,430
Edmonton	1,309,873	186,571	61,845	1,553	87,409	10,252	—	1,478	11,948,520
Lethbridge	1,504	—	—	6,316	7,651	—	—	—	65,510
Moose Jaw	2,039,235	—	6,134	—	3,611	—	—	—	1,332,880
Saskatoon	3,735,150	13,677	—	—	62,218	—	—	—	46,082,150
North Transcona	237,350	29,409	67,530	15,341	12,623	—	3,343	—	1,448,440
Total Shipments	311,756,058	50,173,300	98,383,869	14,127,538	14,832,901	10,252	217,609	1,478	716,306,898

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Table F-2.—Number of Cars Leaking and Cars with Missing Seals at the Lakehead, at Other Points and at Winnipeg Yards, by Railways for the Crop Year 1955-56

Destination	Cars Leaking		Missing Seals	
	C.N.R.	C.P.R.	C.N.R.	C.P.R.
Lakehead Elevators and Yards.....	19,598	20,376	1,588	2,738
Other Points.....	6,821	7,554	975	1,622
Totals.....	26,419	27,930	2,563	4,360
Totals Both Railways.....	54,349		6,923	
Winnipeg Yards.....	1,581	1,888	797	1,370

Table F-3.—Number of Cars Weighed at all Points and Percentage of such Cars found Leaking or with Defective Seals, Crop Years 1954-55 and 1955-56

	Number		Percentage of Total	
	1955-56	1954-55	1955-56	1954-55
Cars Weighed In.....	293,489	282,500	100.0	100.0
Inward Cars Leaking.....	54,349	59,080	18.5	20.9
Inward Cars with Missing or Defective Seals.....	6,923	5,306	2.4	1.8
Cars Weighed Out.....	32,615	27,711	—	—

Table F-4.—Average Reported Outturn Shortages on Vessel Shipments of Grain from Fort William-Port Arthur to Canadian and United States Ports during the 1955-56 Crop Year

Grain	Bushels Shipped	Shortage in Pounds per 1,000 Bushels	
		1955-56	1954-55
CANADIAN PORTS			
Wheat.....	166,624,722	28.4	30.4
Durum Wheat.....	10,968,763	35.9	35.3
Oats.....	34,214,901	19.1	18.1
Barley.....	49,445,468	30.3	31.5
Rye.....	9,513,027	42.4	43.8
Flaxseed.....	9,619,756	29.3	31.3
Buckwheat.....	90,138	44.1	38.6
Sample Grain (in lbs.).....	8,122,180	1.1 lbs. per 1,000 lbs.	2.0 lbs. per 1,000 lbs.
Screenings (in tons).....	45,251	1.7 lbs. per ton	1.6 lbs. per ton
UNITED STATES PORTS			
Wheat.....	6,084,186	53.3	68.7
Oats.....	1,349,344	17.2	49.1
Barley.....	28,678,781	43.7	41.0
Rye.....	3,988,125	5.6	52.0
Sample Grain (in lbs.).....	952,150	1.3 lbs. per 1,000 lbs.	—
Screenings (in tons).....	46,944	—	—
TOTAL CANADIAN AND UNITED STATES PORTS			
Wheat.....	172,708,908	29.3	31.6
Durum Wheat.....	10,968,763	35.9	35.3
Oats.....	35,564,245	19.0	24.9
Barley.....	78,124,249	35.2	35.8
Rye.....	13,501,152	31.5	46.1
Flaxseed.....	9,619,756	29.3	31.3
Buckwheat.....	90,138	44.1	38.6
Sample Grain (in lbs.).....	9,074,330	1.1 lbs. per 1,000 lbs.	2.0 lbs. per 1,000 lbs.
Screenings (in tons).....	92,195	.9 lbs. per ton	.5 lbs. per ton

APPENDIX G

Statistics Branch

E. E. Baxter, Chief Statistician

The Statistics Branch collects, compiles and publishes basic statistics relating to the storage and handling of grain in and between those Canadian elevators licensed under the Canada Grain Act. It prepares audit statements of the operations of all terminal and eastern elevators, verifies the insurance carried on grain stocks, supplies for review by the Board a detailed analysis of country elevator operations and co-operates with other Board offices in the maintenance of detailed records of principal operations.

There were no major changes in the principal statistical bulletins released by this office in 1955-56. The demand for these publications continued to expand and minor adjustments were made to the detailed statistics to improve their application with respect to this wider usage.

Considerable progress was achieved during the year in continuation of the gradual program of adapting statistical and other records to machine operations. Additional equipment and improved accommodation greatly facilitated this work. The new equipment and procedures made possible the recording of further data relative to terminal elevator and country elevator operations and vessel movement. These new tabulations were not possible under manual operations. Currently in the plan and development stage are further applications of the machine accounting unit designed to improve and extend Board records.

The additional records and the flexibility attained through machine card accounting has enabled the Branch to meet the increasing demands from the Trade and Government offices for special statistics and to provide the Board with numerous special analyses on various grain problems. A particular example of the latter has been the new country elevator weighup records system in full operation for the first time in 1955-56.

In accordance with provisions of the "Inland Water Freight Rates Act 1923" copies of vessel charter confirmations for all lake grain cargoes shipped from Fort William-Port Arthur during the 1956 season of navigation were filed by shippers with this office. Reports covering the cargoes of 1,307 vessels and a total load of 367.8 million bushels of the five principal grains were received for the season which opened on April 5th and closed on December 15th, 1956. Rates on these cargoes were relatively steady over the season at the maximum levels allowable under the Act.

All grain audit statements have been prepared as required in connection with the weighup during the year of grain in Terminal and Eastern elevators by the Inspection and Weighing Branches of the Board under authority of Sections 139 and 140 of the Canada Grain Act.

Pursuant to Section 102 of the Canada Grain Act, insurance policies on in-store grain have been obtained from licensees of public country, semi-public terminal and eastern elevators. These policies have been scrutinized and regular insurance valuation reports checked to ensure adequate protection to owners of stored grain.

In compliance with Section 21 of the Canada Grain Act, grain price records for the principal grain markets have been maintained in this office and regular statements covering price statistics have been released throughout the year.

BOARD OF GRAIN COMMISSIONERS

Annual returns covering the operations of 5,378 country elevators over the crop year 1955-56, required under Board's Regulation No. 17, were checked and tabulated. Detailed analytical statements were submitted to the Board and further general statistics thereon released to the public. The new reporting procedure relative to those country elevators completely weighed over during the crop year was in full operation and special statements were prepared for the advice of the Board and the Assistant Commissioners in their review of individual agent's operations.

Certain principal grain statistics for the 1955-56 crop year and the 1956 season of navigation are presented in the tables which follow. The Branch's annual export publication "Canadian Grain Exports—1955-56" was released early in December, 1956. The basic reference statistics covering the 1955-56 crop year will be carried in "Grain Trade of Canada 1955-56", the joint publication of this office and the Agriculture Division of the Dominion Bureau of Statistics.

Table G-1.—Supply and Disposition of Canadian Grain, Crop Year 1955-56

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
SUPPLY					
Carry-over July 31, 1955	499,748,472	83,967,243	91,488,186	18,484,653	1,234,064
Production in 1955	494,140,000	407,783,000	252,410,000	14,754,000	19,748,000
Total Supply	993,888,472	491,750,243	343,898,186	33,238,653	20,982,064
DISPOSITION					
Exported Overseas	300,809,807	2,275,553	35,458,648	8,914,793	11,582,988
Exported to U.S.A.	7,238,409	1,866,803	28,854,835	4,003,681	—
Consumed in Canada*	145,266,445	368,502,046	168,636,768	5,007,142	6,891,605
Total Disposition *	453,314,661	372,644,402	232,950,251	17,925,616	18,474,593
CARRY-OVER (July 31, 1956)					
On Farms (estimated)	165,205,000	71,200,000	50,465,000	9,105,000	440,000
In Country, Private Terminal and Mill Elevators	240,758,501	25,008,474	35,183,047	3,445,586	260,037
In Public and Semi-Public Terminal Elevators	53,669,093	6,741,514	14,700,820	1,289,799	1,050,488
In Store at and Afloat to Eastern Elevators	56,794,038	6,848,010	7,605,239	737,332	476,092
In Eastern Flour Mills	2,052,979	241,318	121,555	1,298	—
In Transit by Rail—Eastern and Western Divisions	21,323,313	8,245,850	2,872,274	660,299	280,854
In Store and in Transit to the United States	770,887	820,675	—	73,723	—
Total in Store July 31, 1956 *	540,573,811	119,105,841	110,947,935	15,313,037	2,507,471

*Subject to revision.

TRADE AND COMMERCE

**Table G-2.—Production and Producers' Marketings in Western Canada,
by Provinces, Crop Year 1955-56**

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
PRODUCTION (DBS Estimate)					
Manitoba.....	41,000,000	50,000,000	40,000,000	1,700,000	4,600,000
Saskatchewan.....	298,000,000	135,000,000	104,000,000	8,200,000	11,850,000
Alberta and British Columbia.....	134,254,000	108,652,000	101,848,000	3,514,000	3,104,000
Totals.....	473,254,000	293,652,000	245,848,000	13,414,000	19,554,000
PRODUCERS' MARKETINGS					
(a) At Country Elevators					
Manitoba.....	32,059,903	12,336,472	22,720,615	1,545,852	3,907,152
Saskatchewan.....	223,759,044	42,472,692	54,576,808	7,355,459	8,870,612
Alberta.....	92,541,462	15,949,154	36,555,541	3,425,572	2,186,716
Totals.....	348,360,409	70,758,318	113,852,964	12,326,883	14,964,480
(b) At Public and Semi-Public Terminals					
Manitoba.....	8,467	6,105	5,176	—	—
Saskatchewan.....	—	—	—	—	—
Alberta.....	5,985	186,510	55,367	—	3,904
Totals.....	14,452	192,615	60,543	—	3,904
(c) At Interior Private and Mill Elevators					
Manitoba.....	565,048	43,091	23,689	—	138,843
Saskatchewan.....	1,862,709	311,789	287,797	9,787	260,955
Alberta.....	1,987,150	293,959	116,191	105,219	327,902
Totals.....	4,414,907	648,839	427,677	115,006	727,700
(d) Loaded over Platforms					
Manitoba.....	9,385	4,666	8,909	700	2,536
Saskatchewan.....	129,794	16,040	11,931	7,127	40,046
Alberta.....	46,265	8,129	98,347	36,347	11,545
Totals.....	185,444	28,835	119,187	44,174	54,127
Total Producers' Marketings					
Manitoba.....	32,642,803	12,390,334	22,758,389	1,546,552	4,048,531
Saskatchewan.....	225,751,547	42,800,521	54,876,536	7,372,373	9,171,613
Alberta.....	94,580,862	16,437,752	36,825,446	3,567,138	2,530,067
Totals.....	352,975,212	71,628,607	114,460,371	12,486,063	15,750,211

BOARD OF GRAIN COMMISSIONERS

Table G-3.—Receipts and Shipments of Canadian Grain at Terminal Elevators, Crop Year 1955-56

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Fort William-Port Arthur					
Receipts.....	175,909,817	44,866,496	86,969,864	11,759,346	14,156,929
Shipments.....	190,925,936	47,184,745	82,987,259	13,599,627	13,335,866
Vancouver-New Westminster—					
Receipts.....	98,160,619	799,230	10,696,147	359,329	706,788
Shipments.....	96,241,596	1,915,039	10,135,119	359,681	702,811
Victoria—					
Receipts.....	2,248,648	746	—	—	—
Shipments.....	2,475,530	28,030	1,396	—	—
Prince Rupert—					
Receipts.....	238,316	—	4,542,030	—	189
Shipments.....	354,667	—	4,060,864	—	—
Churchill—					
Receipts.....	15,484,614	411	—	—	—
Shipments.....	12,818,845	29,737	—	—	—
Transcona—					
Receipts.....	261,343	28,548	62,843	15,341	12,623
Shipments.....	237,350	29,409	67,528	15,341	12,623
Calgary—					
Receipts.....	870,660	5,661	707,561	58,721	341,283
Shipments.....	773,765	5,097	543,534	48,545	342,680
Edmonton—					
Receipts.....	323,932	186,764	63,570	—	86,514
Shipments.....	1,309,873	186,571	61,845	—	86,514
Lethbridge—					
Receipts.....	1,504	—	376	1,553	7,467
Shipments.....	1,504	—	—	1,553	7,554
Moose Jaw—					
Receipts.....	1,570,808	—	6,134	6,316	3,611
Shipments.....	2,039,235	—	6,134	6,316	3,611
Saskatoon—					
Receipts.....	2,671,734	433	—	—	62,218
Shipments.....	3,735,150	13,677	—	—	62,218
Total Receipts.....	297,741,995	45,888,289	103,048,525	12,200,606	15,377,622
Total Shipments.....	310,913,451	49,392,355	97,863,679	14,031,063	14,553,877

Table G-4.—Shipments of Foreign Grain from Canadian Elevators into Canadian Consumer Channels, Crop Year 1955-56

From	United States Flaxseed	United States Corn	United States Soybeans	United States Rice
	bu.	bu.	bu.	bu.
Eastern Elevators.....	295,211	1,583,195	936,776	125,872
Fort William-Port Arthur.....	—	—	—	—
Interior Terminals.....	—	1,478	—	—
Interior Private and Mill Elevators.....	42,035	1,597,044	—	—
Pacific Coast Elevators.....	—	—	—	—

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Table G-5.—Primary Receipts and Shipments at Eastern Elevators, Crop Year 1955-56

	Receipts	Shipments
	bu.	bu.
Canadian Grain—		
Wheat.....	187,025,919	204,533,349
Oats.....	33,193,163	31,872,176
Barley.....	44,076,916	41,486,548
Rye.....	9,702,083	9,851,037
Flaxseed.....	13,408,738	13,435,345
Corn.....	8,080,191	7,875,284
Beans.....	2,404,788	2,446,892
Buckwheat.....	254,650	257,567
Peas.....	12,755	12,635
Mixed Grain (lbs.).....	691,190	676,076
Sample Grain (lbs.).....	9,023,120	8,028,936
United States Grain—		
Wheat.....	1,709,083	1,571,641
Flaxseed.....	321,668	295,211
Corn.....	1,492,123	1,583,195
Soybeans.....	867,713	936,776
Rice.....	125,872	125,872

Table G-6.—Supply and Disposition of Canadian Grain in United States Positions, Crop Year 1955-56

	Wheat	Oats	Barley	Rye
	bu.	bu.	bu.	bu.
SUPPLY				
In Store and In Transit, U.S.A.....	411,078	—	—	90,550
Receipts direct from Canada.....	8,412,025	2,687,478	28,962,876	3,986,854
Total Supply.....	8,823,103	2,687,478	28,962,876	4,077,404
DISPOSITION				
Exported.....	227,223	—	—	—
Returned to Canada.....	586,584	—	108,041	—
Used Domestically.....	7,238,409	1,866,803	28,854,835	4,003,681
Total Disposition.....	8,052,216	1,866,803	28,962,876	4,003,681
In Store and In Transit, July 31, 1956.....	770,887	820,675	—	73,723

BOARD OF GRAIN COMMISSIONERS

Table G-7.—Exports of Canadian Wheat, by Seaboard Sectors, by Months, Crop Year 1955-56

	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via Fort William- Port Arthur Direct	Via United States Atlantic Ports	United States Imports ¹		Total All Wheat	Wheat Flour ²	Total Wheat and Wheat Flour
						For Domestic Use	Milling in Bond			
1955										
August.....	7,224,544	7,717,939	4,834,845	—	—	469,049	—	20,246,377	2,673,398	22,919,775
September.....	4,690,781	4,594,889	5,404,773	—	181,000	291,562	—	15,169,005	3,461,928	18,630,933
October.....	4,450,409	7,044,973	2,579,227	—	—	415,873	—	14,490,482	3,558,616	18,049,098
November.....	7,151,008	9,295,915	—	—	—	439,512	—	16,886,435	3,085,121	19,971,556
December.....	5,960,714	4,361,844	—	—	—	429,131	—	10,751,689	3,076,020	13,827,709
1956										
January.....	9,451,579	9,599,635	—	—	1,333	475,829	—	19,528,376	2,791,760	22,320,136
February.....	7,868,708	9,115,943	—	—	—	537,482	—	17,522,133	3,444,514	20,966,647
March.....	7,891,337	9,739,875	—	—	—	130,279	—	17,761,491	3,180,838	20,942,329
April.....	9,450,925	19,522,766	—	—	—	1,203,457	129,489	30,306,637	3,276,115	33,582,752
May.....	12,324,101	25,025,669	—	—	—	811,978	336,996	38,498,744	3,645,431	42,144,175
June.....	15,913,543	26,286,956	—	18,667	—	1,149,633	95,910	43,464,709	3,037,274	46,501,983
July.....	5,938,667	18,249,601	—	—	44,900	322,229	—	24,555,397	3,635,726	28,191,123
Total Crop Year 1955-56.....	98,322,316	150,556,005	12,818,845	18,667	227,233	6,676,014	562,395	269,181,475	38,866,741	308,048,216
Total Crop Year 1954-55.....	79,901,268	114,646,896	12,245,093	—	35,822	3,076,526	1,381,969	211,287,574	40,621,558³	251,909,132
5-Year Average 1950-51 to 1954-55.....	93,187,125	124,546,594	9,231,923	116,820	1,895,546	14,384,817	4,419,145	247,781,970	50,078,666	297,860,636

¹ Compiled from returns of Canadian elevator licensees and shippers and advice from American grain correspondents.

² Canadian Customs returns converted to bushels—unadjusted for time lag.

³ Revised—adjusted to remove effect of time lag in reports made by the Customs.

TRADE AND COMMERCE

Table G-8.—Overseas Exports of Canadian Grain, by Seaboard Sectors, by Grades, Crop Year 1955-56

Grades	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports*	Via Churchill	Via United States Atlantic Ports	Total
WHEAT—	bu.	bu.	bu.	bu.	bu.
1 Manitoba Northern	2,593,488	4,891,528	295,867	—	7,780,883
2 Manitoba Northern	30,429,412	59,933,177	8,728,376	44,900	99,135,865
3 Manitoba Northern	25,783,632	27,573,357	3,739,934	1,333	57,098,256
4 Manitoba Northern	14,938,028	16,956,958	14,535	—	31,909,521
No. 5	18,712,332	16,504,936	—	—	35,217,268
No. 6	1,359,756	5,599,996	—	—	6,959,752
Feed	89,973	1,716,012	—	—	1,805,985
2 C.W. Garnet	240,390	—	—	—	240,390
3 C.W. Garnet	1,789,545	—	—	—	1,789,545
1 Alberta Red Winter	93,724	—	—	—	93,724
2 Alberta Winter	684,831	—	—	—	684,831
3 Alberta Winter	522,519	—	—	—	522,519
Other Western	1,084,686	3,018,752	40,133	181,000	4,324,571
Eastern	—	913,693	—	—	913,693
2 C.W. Amber Durum	—	1,458,629	—	—	1,458,629
3 C.W. Amber Durum	—	635,054	—	—	635,054
Extra 4 C.W. Amber Durum	—	9,910,864	—	—	9,910,864
4 C.W. Amber Durum	—	1,120,107	—	—	1,120,107
5 C.W. Amber Durum	—	332,276	—	—	332,276
Other Durum	—	9,333	—	—	9,333
Totals	98,322,316	150,574,672	12,818,845	227,233	261,943,066
OATS—					
2 C.W.	659	—	—	—	659
Extra 3 C.W.	—	16,484	—	—	16,484
3 C.W.	1,765	247,223	—	—	248,988
Extra 1 Feed	12,547	70,314	—	—	82,861
1 Feed	188,605	489,129	—	—	677,734
2 Feed	—	181,128	—	—	181,128
Mixed Feed	116,940	431,568	—	—	548,508
Eastern	—	449	—	—	449
Totals	320,516	1,436,295	—	—	1,756,811
BARLEY—					
3 C.W. Six-Row	2,600,687	358,785	—	—	2,959,472
3 C.W. Two-Row	3,627,481	267,436	—	—	3,894,917
1 Feed	5,542,148	1,000,884	—	—	6,543,032
Extra 2 Feed	897,025	679,750	—	—	1,576,775
2 Feed	1,210,033	18,427,401	—	—	19,637,434
3 Feed	—	176,585	—	—	176,585
Tough 1 Feed	—	163,434	—	—	163,434
Tough Extra 2 Feed	—	23,333	—	—	23,333
Tough 2 Feed	—	483,000	—	—	483,000
Eastern	—	666	—	—	666
Totals	13,877,374	21,581,274	—	—	35,458,648
RYE—					
2 C.W.	196,238	4,567,030	—	—	4,763,268
3 C.W.	157,689	3,955,750	—	—	4,113,439
Other Western	—	38,051	—	—	38,051
Eastern	—	35	—	—	35
Totals	353,927	8,560,866	—	—	8,914,793
FLAXSEED—					
1 C.W.	697,275	10,673,273	—	—	11,370,548
2 C.W.	12,055	200,385	—	—	212,440
Totals	709,330	10,873,658	—	—	11,582,988

*Includes clearance of 18,667 bushels wheat and 47,028 bushels barley from Fort William-Port Arthur direct.

BOARD OF GRAIN COMMISSIONERS

Table G-9.—Overseas Exports of Canadian Grain, by Ports, Crop Year 1955-56

Loaded at	Wheat (All varieties)	Oats	Barley	Rye	Flaxseed	Total All Grains
Vancouver-New Westminster	bu. 95,495,410	bu. 320,516	bu. 9,816,510	bu. 353,927	bu. 709,330	bu. 106,695,693
Victoria	2,472,239	—	—	—	—	2,472,239
Prince Rupert	354,667	—	4,060,864	—	—	4,415,531
Montreal	67,507,174	1,386,876	19,033,497	7,362,142	7,121,590	102,411,279
Sorel	12,725,665	—	1,870,943	804,000	226,936	15,627,544
Three Rivers	13,581,658	—	420,000	—	—	14,001,658
Quebec	15,511,701	—	128,218	70,000	—	15,709,919
St. John	2,731,537	—	—	—	—	2,731,537
West St. John	21,223,677	49,419	81,588	232,561	2,465,736	24,052,981
Halifax	17,274,593	—	—	92,163	1,059,396	18,426,152
Churchill	12,818,845	—	—	—	—	12,818,845
Fort William-Port Arthur (direct)	18,667	—	47,028	—	—	65,695
Totals—Canadian Ports	261,715,833	1,756,811	35,458,648	8,914,793	11,582,988	319,429,073
Baltimore	181,000	—	—	—	—	181,000
New York	1,333	—	—	—	—	1,333
Portland	44,900	—	—	—	—	44,900
Total—U.S.A. Ports	227,233	—	—	—	—	227,233
Totals to Overseas	261,943,066	1,756,811	35,458,648	8,914,793	11,582,988	319,656,306
Wheat Flour ¹	38,866,741	518,742	—	—	—	38,866,741
Rolled Oats and Oatmeal ¹	—	1,866,803	28,854,835	4,003,681	—	518,742
U.S.A. Imports ²	7,238,409	—	—	—	—	41,963,728
Grand Totals	308,048,216	4,142,356	64,313,483	12,918,474	11,582,988	401,005,517

¹ Canadian Customs Returns—converted to bushels.

² Compiled from returns of Canadian Elevator licensees and shippers and advice from American grain correspondents.

TRADE AND COMMERCE

Table G-10.—Tough and Damp Grain Dried, by Storage Position, Crop Year 1955-56

	Artificial Drying			Natural Drying	Total
	Tough	Damp	Tough and Damp		
	bu.	bu.	bu.	bu.	bu.
LAKEHEAD					
Wheat.....	9,484,359	29,422	9,513,781	8,095,387	17,609,168
Durum Wheat.....	3,909	129	4,038	117,730	121,768
Oats.....	540,185	572	540,757	696,314	1,237,071
Barley.....	1,265,933	22,635	1,288,568	1,521,684	2,810,252
Rye.....	121,791	—	121,791	559,909	681,700
Flaxseed.....	10,235	25	10,260	50,271	60,531
Totals.....	11,426,412	52,783	11,479,195	11,041,295	22,520,490
PACIFIC COAST					
Wheat.....	2,943,351	3,895	2,947,246	5,298,448	8,245,694
Oats.....	25,269	74,693	99,962	14,405	114,367
Barley.....	220,264	1,202	221,466	643,986	865,452
Rye.....	1,459	—	1,459	20,102	21,561
Flaxseed.....	—	—	—	2,721	2,721
Totals.....	3,190,343	79,790	3,270,133	5,979,662	9,249,795
INTERIOR					
Wheat.....	616,382	1,747	618,129	366,796	984,925
Barley.....	—	—	—	573	573
Totals.....	616,382	1,747	618,129	367,369	985,498
CHURCHILL					
Wheat.....	—	—	—	452,511	452,511
Totals, All Positions.....	15,233,137	134,320	15,367,457	17,840,837	33,208,294

Table G-11.—Weighted Average Lake Freight Rates on Canadian Grain from Fort William-Port Arthur, Season of Navigation 1956

Port of Discharge	Wheat	Oats	Barley	Rye	Flaxseed
		(cents per bushel)			
Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	5.534	5.012	5.271	5.649	—
Port Colborne.....	7.510	6.75	7.25	7.5	—
Toronto.....	8.0	7.25	7.448	—	8.627
Kingston.....	9.585	8.0	8.726	—	—
Prescott.....	9.115	8.25	8.5	9.0	12.919
Montreal (Direct).....	16.024	13.0	15.093	16.0	17.0
Montreal via Bay Ports.....	16.0	—	15.25	—	—
Montreal via Port Colborne.....	16.093	13.0	15.25	16.0	17.0
Montreal via Toronto.....	16.0	—	15.25	16.0	17.0
Montreal via Kingston.....	16.023	13.0	15.25	16.0	17.0
Montreal via Prescott.....	16.0	13.0	15.245	16.0	17.0
Sorel (Direct).....	—	—	15.25	—	—
Sorel via Port Colborne.....	16.0	13.0	15.25	16.0	—
Sorel via Kingston.....	16.0	—	—	—	—
Sorel via Prescott.....	16.0	13.0	15.25	16.0	17.0
Three Rivers via Bay Ports.....	16.0	—	—	—	—
Three Rivers via Port Colborne.....	16.0	—	15.25	—	—
Three Rivers via Toronto.....	16.0	—	—	—	—
Quebec (Direct).....	16.0	13.0	15.25	—	—
Quebec via Port Colborne.....	16.0	13.0	15.25	—	—
Quebec via Kingston.....	16.0	—	—	—	—
Quebec via Prescott.....	16.0	13.0	15.25	—	—
Buffalo.....	8.533	5.273	7.957	6.936	9.0
Chicago.....	8.5	—	—	6.523	—
Detroit.....	—	—	8.208	—	—
Duluth-Superior.....	6.137	—	5.355	—	—
Huron.....	7.0	4.660	—	—	—
Manitowoc.....	—	—	6.368	—	—
Milwaukee.....	8.0	—	6.666	8.0	—
Oswego.....	—	—	11.0	—	—

NOTE—Rates originally quoted in United States Funds have been converted to Canadian currency at the prevailing rates of exchange.

Table G-12.—Overages and Shortages Disclosed by Weighovers of Grain Stored in PUBLIC TERMINAL Elevators, Crop Year 1955-56

NOTE.—The figures shown in this table represent differences between outstanding registered warehouse receipts and quantities of grain disclosed at weighover.

Date of Weighover	Licensee	Wheat		Oats		Mixed Feed Oats		Barley		Rye		Flaxseed		Corn		Rapeseed		Mixed, and Sample Grain	
		Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lb.	lb.	lb.	lb.
1956	CANADIAN GOVERNMENT ELEVATORS																		
Jan. 5-Feb. 14.	Moose Jaw, Sask.	5,091.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Feb. 16-Mar. 27	Saskatoon, Sask.	4,316.3	—	—	—	—	—	—	—	—	—	111.4	—	—	—	13,420	—	218,750	—
	Totals	9,408.0	—	—	—	—	—	—	—	—	—	111.4	—	—	—	13,420	—	218,750	—
	Net Totals—Overages	9,408.0	—	—	—	—	—	—	—	—	—	111.4	—	—	—	13,420	—	218,750	—
	Shortages	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table G-13.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in PUBLIC TERMINAL Elevators, Crop Year 1955-56

Date of Weighover	Licensee	Excess					Deficiency						
		1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
1956	CANADIAN GOVERNMENT ELEVATORS	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
	Moose Jaw, Sask.	—	—	762.7	—	—	—	—	17.5	—	121.0	—	—
	Saskatoon, Sask.	—	—	5,216.0	1,902.5	—	—	—	3,763.9	—	—	—	—

Table G-14—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC TERMINAL Elevators, Crop Year 1955-56

Date of Weighover	Licensee	EXCESS			DEFICIENCY						
		1 Hard	1 Northern	2 Northern	3 Northern	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
Dec. 21-27, 1955	FORT WILLIAM-PORT ARTHUR Canadian Consolidated Grain Co. Ltd. Empire— Thunder Bay	—	7.5	1.7 109.9	3.3	—	—	—	—	—	—
Jan. 4-12, 1956		—	—	—	16,732.8	—	—	18,274.6	—	—	—
Feb. 3-14, 1956	Eastern Terminal Elevator Co. Ltd.	—	—	—	—	—	—	2,165.0 7,624.6	14,713.0 27,302.6	13,153.8 12,096.1	13.0 —
Dec. 14-21, 1955	Federal Grain Ltd.	—	—	—	—	—	—	—	—	—	—
Dec. 14-17, 1955	Northwestern Stewart	—	—	—	—	—	—	—	—	—	—
Dec. 14-20, 1955	Fort William Elevator Co. Ltd.	—	—	—	—	—	—	—	—	—	—
May 14-18, 1956	Elevator "E" Elevator "F"	—	—	—	—	—	21.3	185.0	1,547.9	—	—
Dec. 13-16, 1955	Lakehead Terminals Ltd.	—	6.6	—	184.0	—	—	233.8	—	—	—
May 9-10, 1956	Manitoba Pool Elevators	—	—	—	—	—	—	—	—	—	—
Jan. 23-30, 1956	Elevator No. 3 Elevator No. 6	—	—	—	—	—	76.6	3,830.3 3,685.3	20,221.4 5,217.9	—	—
Dec. 15-21, 1955	McCabe Grain Co. Ltd.	—	—	—	—	—	92.3	61.3	3,077.6	—	—
Dec. 19-29, 1955	National Grain Co. Ltd.	—	—	—	—	—	265.4	3,868.2	4,444.0	—	16.6
Dec. 13-23, 1955	Ogilvie Flour Mills Co. Ltd.	—	—	—	—	—	272.5	500.1	1,802.0	—	—
Jan. 9-18, 1956	Saskatchewan Wheat Pool— Elevator No. 4	—	—	—	—	—	1,604.3	19,779.9	10,841.5	—	—
Dec. 21, 1955	—	—	—	—	—	—	2,279.2	7,252.9	44,117.8	—	—
Jan. 3, 1956	Elevator No. 5	—	—	—	—	—	3,751.1	31,130.5	12,849.0	—	91.9
Dec. 19-29, 1955	Elevator No. 7	—	—	—	—	—	2,636.2	14,851.8	32,587.5	—	1,627.3
Dec. 12-18, 1955	Searle Grain Co. Ltd.	—	—	—	—	—	—	—	—	—	—
Aug. 2-5, 1955	Superior Elevator Co. Ltd.	—	15.6	—	276.0	—	—	236.2	—	—	—
July 25-30, 1956	Superior Elevator Co. Ltd.	—	2,938.8	—	—	—	—	3,901.8	1,033.1	—	—
Dec. 27, 1955- Jan. 4, 1956	United Grain Growers Ltd.	—	—	—	—	—	807.6	12,398.8	12,210.1	—	3.6

BOARD OF GRAIN COMMISSIONERS

Table G-14.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC TERMINAL Elevators, Crop Year 1955-56—Concluded

Date of Weighover	Licensee	EXCESS				DEFICIENCY				1 C.W. Garnet	2 C.W. Garnet
		1 Hard	1 Northern	2 Northern	3 Northern	1 Hard	1 Northern	2 Northern	3 Northern		
Oct. 19-Nov. 3, 1955	VANCOUVER-NEW WESTMINSTER Alberta Wheat Pool	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
Aug. 9-12, 1955	Cargill Grain Co. Ltd.	—	—	296.9	—	—	218.8	—	22.1	—	—
Nov. 28-Dec. 1, 1955	James Richardson & Sons Ltd.— Elevator No. 4 (N.H.B.)	—	—	—	—	—	15.4	18.0	47.3	—	7.7
June 22-28, 1956	Searle Grain Co. Ltd.	—	—	—	—	—	328.1	1,504.6	4,973.0	—	58.7
Aug. 10-11, 1955	VICTORIA, B.C. Victoria Elevator Ltd.	—	—	—	776.0	—	3,033.0	976.0	—	—	—
Oct. 17-21, 1955	PRINCE RUPERT, B.C. Canadian Government Elevator	—	—	—	—	—	38.4	34.3	52.2	—	—
Oct. 13-18, 1955	CHURCHILL, MANITOBA National Harbours Board	—	1,337.2	—	—	—	—	3,362.2	3,326.5	—	—

TRADE AND COMMERCE

Table G-15.—Excesses and Deficiencies in Specified Grades of Wheat disclosed by Weighovers of Grain Stored in PRIVATE TERMINAL Elevators, Crop Year 1955-56

Grade of Wheat	Excess	Deficiency
1 Hard.....	—	—
1 Northern.....	—	—
2 Northern.....	—	—
3 Northern.....	—	—
1 C.W. Garnet.....	—	—
2 C.W. Garnet.....	—	—

No wheat of the above grades was handled or in store in the following elevators:

Date of Weighover	Elevator Company	Location
July 23rd, 1956.....	Canada Malting Co. Ltd. No. 1.....	Calgary, Alberta
December 20th, 1955.....	Canada Malting Co. Ltd.....	Winnipeg, Manitoba
December 12th, 1955.....	Canada Malting Co. Ltd.....	Port Arthur, Ontario
December 15th, 1955.....	Dominion Malting Co. Ltd.....	Transcona, Manitoba
December 29th, 1955.....	National Grain Co. Ltd. (D & S).....	Fort William, Ontario

Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1955-56

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1956			bu.	bu.
Mar. 12-15	COLLINGWOOD Collingwood Terminals Ltd.....	Canada Western Wheat.....	—	2,408.2
		Canada Western Oats.....	—	110.3
		Canada Western Barley.....	103.9	—
		Canada Western Mixed Grain ..	—	*293,720
April 5-19	GODERICH Goderich Elevator and Transic Co. Ltd.....	Canada Western Wheat.....	—	9,260.2
		Canada Western Oats.....	—	5,860.0
		Canada Western Barley.....	—	2,574.0
		Canada Western Rye.....	—	749.5
		Canada Western Sample Grain..	—	*17,610
		Canada Western Screenings.....	—	*22,895
Mar. 6-12	Upper Lakes and St. Lawrence Transpor- tation Co. Ltd.....	Canada Western Wheat.....	—	3,227.8
		Canada Western Oats.....	—	1,682.4
		Canada Western Barley.....	—	645.0
		Canada Western Rye.....	—	232.0
		Canada Western Screenings.....	—	*23,300
Feb. 24- March 9	HUMBERSTONE Robin Hood Flour Mills Ltd.....	Canada Western Wheat.....	—	11,484.1
		Canada Western Oats.....	—	79.6
		Canada Western Barley.....	—	703.3
		U.S.A. Wheat.....	—	648.2
Feb. 20- Mar. 10	KINGSTON Canada Steamship Lines Ltd.....	Canada Western Wheat.....	—	6,549.0
		Canada Western Oats.....	—	1,216.0
		Canada Western Barley.....	—	3,208.8
		Canada Western Rye.....	—	587.3
		Canada Western Flaxseed.....	—	2,277.7
		Canada Western Buckwheat.....	—	14.8
		Canada Western Sample Grain..	—	*1,470
Mar. 13-21	MIDLAND Canada Steamship Lines Ltd.....	Canada Western Wheat.....	—	4,239.8
		Canada Western Oats.....	—	23.3

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Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1955-56—Continued

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1956			bu.	bu.
Mar. 26-April 3	Midland-Simcoe Elevator Co. Ltd.....	Canada Western Wheat.....	—	3,843.7
		Canada Western Oats.....	—	779.2
		Canada Western Barley.....	—	552.3
		Canada Western Rye.....	—	8.2
Mar. 22-28	Renown Investments Ltd.....	Canada Western Wheat.....	—	964.0
		Canada Western Oats.....	—	69.5
		Canada Western Barley.....	—	108.6
		Canada Western Rye.....	—	8.8
Mar. 23-29	MONTREAL Dominion Elevator Ltd.....	Canada Western Wheat.....	—	2,632.5
		Canada Western Oats.....	—	1,052.1
		Canada Western Barley.....	—	519.4
		Canada Western Sample Grain.....	—	*1,740
		Canada Western Screenings.....	—	*18,730
		U.S.A. Corn.....	—	42.2
Jan. 11-Feb. 10	National Harbours Board.....	Canada Western Wheat.....	—	38,475.6
		Canada Western Oats.....	—	145.1
		Canada Western Barley.....	—	24,555.0
		Canada Western Rye.....	—	7,719.8
		Canada Western Flaxseed.....	—	3,778.5
		Canada Western Buckwheat.....	—	362.6
		Canada Western Peas.....	—	9.1
		Canada Western Mixed Grain.....	*4,970	—
		Canada Western Sample Grain.....	*4,680	—
		Canada Western Screenings.....	—	*2,000
		Canada Western Rapeseed.....	—	*1,400
		U.S.A. Flaxseed.....	—	41.8
		U.S.A. Corn.....	—	2,055.7
		U.S.A. Rice.....	—	160.4
Mar. 19-23	OWEN SOUND Great Lakes Elevator Co. Ltd.....	Canada Western Wheat.....	—	5,228.7
		Canada Western Oats.....	—	893.0
		Canada Western Barley.....	—	509.0
		Canada Western Rye.....	74.5	—
		Canada Western Screenings.....	—	*107,230
Feb. 8-14	PORT COLBORNE Maple Leaf Milling Co. Ltd.....	Canada Western Wheat.....	—	7,543.0
		Canada Western Oats.....	—	715.9
		Canada Western Barley.....	—	2,590.7
		Canada Western Rye.....	—	302.0
		Canada Western Flaxseed.....	—	42.6
Feb. 15-23	National Harbours Board.....	Canada Western Wheat.....	—	10,400.8
		Canada Western Oats.....	—	2,533.9
		Canada Western Barley.....	—	6,100.8
		Canada Western Rye.....	—	2,616.0
		Canada Western Flaxseed.....	—	1,320.3
April 12	PORT MCNICOLL Canadian Pacific Railway Co.....	Canada Western Wheat.....	—	2,752.2
		Canada Western Oats.....	—	50.6
		Canada Western Barley.....	16.2	—
		Canada Western Rye.....	—	83.6
Mar. 5-21	PRESCOTT National Harbours Board.....	Canada Western Wheat.....	—	11,726.0
		Canada Western Oats.....	—	5,056.2
		Canada Western Barley.....	—	2,830.3
		Canada Western Rye.....	—	1,366.4
		Canada Western Flaxseed.....	—	1,216.9
		Canada Western Buckwheat.....	—	41.4
		Canada Western Screenings.....	—	*1,450
		U.S.A. Corn.....	—	765.6

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Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1955-56—Continued

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1956			bu.	bu.
Feb. 13- Mar. 2	QUEBEC National Harbours Board.....	Canada Western Wheat.....	—	6,697.0
		Canada Western Oats.....	—	2,257.8
		Canada Western Barley.....	—	2,304.2
		Canada Western Rye.....	—	46.9
		Canada Western Sample Grain.....	—	*520
		Canada Western Screenings.....	—	*4,310
		U.S.A. Corn.....	—	127.2
Mar. 14- April 4	SARNIA Sarnia Elevator Co. Ltd.....	Canada Western Wheat.....	—	8,058.6
		Canada Western Oats.....	—	96.1
		Canada Western Barley.....	—	77.5
		U.S.A. Wheat.....	—	214.9
Feb. 6-17	SOREL North American Elevators Ltd.....	Canada Western Wheat.....	—	4,818.0
		Canada Western Oats.....	—	492.4
		Canada Western Barley.....	—	537.1
		Canada Western Rye.....	—	202.6
		Canada Western Flaxseed.....	—	320.0
June 4-7	THREE RIVERS Three Rivers Grain and Elevator Co. Ltd.....	Canada Western Wheat.....	—	24,936.6
		Canada Western Oats.....	—	261.9
		Canada Western Barley.....	—	939.2
		Canada Western Sample Grain.....	*102,130	—
		U.S.A. Corn.....	—	8.1
Mar. 22- April 4	TORONTO Toronto Elevators.....	Canada Western Wheat.....	—	6,443.6
		Canada Western Oats.....	—	3,207.0
		Canada Western Barley.....	—	4,986.5
		Canada Western Rye.....	—	583.7
		Canada Western Flaxseed.....	—	1,450.7
		Canada Western Sample Grain.....	—	*1,820
		Canada Western Screenings.....	—	*10,690
		U.S.A. Corn.....	—	2.1
April 6-11	WALKERVILLE Hiram Walker & Sons Grain Corp. Ltd.....	U.S.A. Soybeans.....	—	4,842.4
		Canada Western Wheat.....	—	2,807.6
		Canada Western Oats.....	10.4	—
		Canada Western Barley.....	—	15.3
		Canada Western Rye.....	—	861.1
		Screenings, Origin Unknown.....	—	*20
		U.S.A. Wheat.....	—	62.2
April 20	HALIFAX National Harbours Board.....	U.S.A. Corn.....	—	53.9
		Canada Western Wheat.....	—	10,540.7
		Canada Western Oats.....	—	10.0
		Canada Western Barley.....	—	6.3
		Canada Western Rye.....	—	57.6
April 27	St. JOHN Canadian National Railway Co.....	Canada Western Flaxseed.....	—	790.9
		Canada Western Wheat.....	—	1,603.3
April 25	WEST ST. JOHN Canadian Pacific Railway Co. Elevator "B".....	Canada Western Wheat.....	—	5,328.1
		Canada Western Barley.....	—	7.3
		Canada Western Rye.....	—	72.9
		Canada Western Flaxseed.....	—	142.9
April 25	Canadian Pacific Railway Co. Elevator "H".....	Canada Western Wheat.....	—	5,880.3
		Canada Western Oats.....	—	30.9
		Canada Western Barley.....	—	43.7
		Canada Western Rye.....	—	72.4
		Canada Western Flaxseed.....	—	1,398.2
		Canada Western Screenings.....	—	*2,160

* Pounds.

APPENDIX H

The Grain Research Laboratory

J. Ansel Anderson, Chief Chemist

Section 22 of the Canada Grain Act requires that "the Board shall maintain an efficient and adequately equipped laboratory for research work in relation to grain."

The following summary report for 1956 deals with the Laboratory's studies of the quality of grain marketed in 1955-56, the quality of 1956 crops, and with research and other activities. In accordance with past practice, a detailed report on the year's work will be published separately to put on record data on the quality of Canadian grain crops and progress reports on the Laboratory's research.

Quality of Grain Marketed in 1955-56

Throughout the crop year, the Laboratory continued to study the quality of spring wheat, durum wheat, barley, flax and other cereal grains at all main stages of marketing. The complete data will be reported in the 1956 report of the Grain Research Laboratory.

Spring wheat marketed during the 1955-56 crop year showed satisfactory milling quality and flour yield; baking strength and carrying power were normal for Canadian wheat of 12.7% protein. Macaroni-making quality of durum wheat was excellent and well above average. Changes in the specifications for No. 3 C.W. Amber Durum, restricting the grade to varieties equal to Mindum, improved the quality of macaroni made from this grade. The new commercial grade of Extra No. 4 C.W. Amber Durum also proved satisfactory for macaroni manufacture. Malting quality of barley was very good and better than that of the previous crop year. The large flax crop was satisfactory in quality, but oil content and iodine value were lower than in 1954-55.

Estimated Quality of 1956 Crops

In late August and early September there were frequent and widespread rains, and considerable frost damage also occurred. As a result, it is estimated that less than half the crop will grade No. 3 Northern and higher. The wheat is high in bushel weight and of good milling quality. With seasonal rainfall well above average, and with below average temperature during much of the growing period, average protein content was reduced to 12.4%. However, the quality of the protein appears to be good and the general baking strength and carrying power of the Northern grades better than protein levels might suggest. Gassing power and baking absorption are both at desirable levels and doughs handle very satisfactorily.

Production of durum wheat is the largest on record by a considerable margin (41 million bushels), principally because of increased acreage and a repetition of last year's high yields. Total volume of high-grade durum will be larger than for many years, but Extra No. 4 C.W. and No. 4 C.W. will be the largest grades. Bushel weight is well above that of last year's crop and macaroni-making quality of the top three grades is excellent. Extra 4 C.W., the new grade, also appears to be of good all-around quality; bushel weight is very high and protein is adequate.

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The new barley crop is also a large one, and malting quality is better than in 1955. Almost half the crop is expected to enter the malting grades. Malt extract yield is the highest on record, nitrogen content is lower than for last year, bushel weight and kernel weight are higher, and clean-out losses are lower. Enzymatic activity is adequate.

The 1956 flax crop is the largest on record (34 million bushels), and about 85% is expected to grade No. 1 C.W. Oil content and iodine value are both higher than in 1955. Because of increased production of rapeseed in Western Canada this year, a survey of the quality of this crop was made for the first time. Average results show that oil content is 45.0% and that protein content is 39.4% for the oil-free meal.

Bulletins and Maps

In accordance with usual practice, preliminary information on the quality of 1956 crops of spring wheat, durum wheat, barley and oil seeds was published in two maps and four crop bulletins. These publications were distributed to domestic and foreign buyers of Canadian grain. Additional supplies of the final protein map and the crop bulletins on wheat and barley went to the Canadian Wheat Board for separate distribution. Two thousand copies of the crop bulletin on wheat were also sent to Canadian Government Trade Commissioners by the Grain Division, Department of Trade and Commerce, Ottawa. Information contained in the bulletin was presented at two meetings of the Committee on Western Grain Standards held in Winnipeg in October and November.

The new series of quarterly bulletins "Canadian Wheat Cargoes", begun in November last year, was continued throughout 1956. Four issues were released, and were distributed principally by Canadian Government Trade Commissioners who received their allotments by air cargo. This bulletin has proved to be one of the most popular publications of the Laboratory, and requests for additional copies have followed each release.

Service to the Inspection Branch

The Laboratory continued to work in close co-operation with the Grain Inspection Branch. Studies were made of the quality of tentative standard and standard export samples of different grains. Special tests on samples of current crops were made from time to time to provide information that would assist in grading. Supervision of moisture testing and equipment in the Board's Inspection offices was continued throughout the year, and increased use of electrical moisture meters was further investigated. Studies initiated last year aimed at increasing uniformity in export cargoes of the top grades of wheat have been continued.

Service to Other Organizations

As has been the practice for many years, the Laboratory took a major part in studies of the quality of spring wheat, durum wheat, and malting barley developed by Canadian plant breeders. Parkland, a new malting barley, was judged equal to O.A.C. 21, and has been licensed; Ramsey, an American variety of durum wheat, was ruled as equal in quality to Mindum. Parkland is now being offered for sale, and Ramsey will be made available to farmers early in 1957. Close co-operation has continued with the Barley Improvement Institute, particularly in the brewing trials of the barley variety

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designated U.M. 570. In these trials this variety was classed as not equal to O.A.C. 21 and it has been discarded. As in the past, the Laboratory collaborated with the Northwest Crop Improvement Association in studies of United States wheat varieties, and undertook its share of the work of the American Association of Cereal Chemists. The Chief Chemist attended meetings of the International Association for Cereal Chemistry in Brussels and Vienna, and was elected Vice-President of this new association.

Laboratory services and technical advice to the Canadian Wheat Board, the Grain Division of the Department of Trade and Commerce, and other Government agencies continued on about the same scale as last year. Much of this work relates to the promotion of sales of Canadian wheat and involves comparisons of different grades with competing wheats from other countries. Inquiries relating to the quality of Canadian grains were received from many sources, and considerable time and various minor studies were required to deal with them adequately.

Research Investigations

The Laboratory has continued an active program of research on the scientific background of what constitutes quality in cereal grains and how it can be measured. The program includes exploration and development of new areas of research as well as a systematic accumulation of new knowledge on the more promising specific topics.

The technique of structural relaxation developed in the Laboratory for the study of physical properties of dough has again proved to be a valuable research tool. During the last year, this method was applied to studies of the role of added proteolytic enzymes in dough, and to an investigation of the importance of inorganic constituents in flour. The relaxometer which was developed for a direct attack on the nature of viscoelastic properties of dough has undergone further redesign and development. New facilities have been constructed for studying the sorption of water vapor by wheat and flour, and will extend the scope of basic research program.

Continued acceleration of plant breeding programs has emphasized the need for applied research aimed at developing a more comprehensive system of tests for an early prediction of quality. A preliminary examination of several common tests has been made. Changes in the quality of stored grain and flour have also been receiving attention. Proteolytic enzymes may be used effectively in modifying the properties of gluten from old flour.

For durum wheat, a new Farinograph technique, and an examination of gluten properties, have been shown to provide additional criteria for assessing the quality of durum varieties.

In barley research, new equipment for malting has been completed. The steep tank has been adapted to provide forced aeration which has resulted in better growth and modification of the barley during germination. An additional germination drum is being constructed so that two samples can be tested simultaneously. The kiln is of simple design with automatic control of drying temperature. Varietal differences in the activity of the cell wall degrading enzymes have been observed, and their relation to malting quality are being studied. Some aspects of quality factors in barley for the Japanese market have been investigated. Barley is pearled and pressed for human consumption as a rice extender, and the study of barley properties required for this process is a new phase of applied research on barley.

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Increased knowledge obtained by research serves as a foundation for the improvement of all other phases of work in the Laboratory. Moreover, it enhances the authority of its service to the Board and makes its decisions relating to the quality of Canadian grain more acceptable in consumer countries.

Visitors and Visits

Official missions from Belgium, the Netherlands, Germany, Czechoslovakia and Norway, sponsored by the Canadian Wheat Board, visited the Laboratory during 1956. Countries represented by other visitors included Australia, Ceylon, France, Guatemala, India, Iraq, Japan, Kenya Colony, Netherlands, New Zealand, Pakistan, South Africa, Switzerland, Turkey, the United Kingdom, the United States, and the U.S.S.R. It was a special pleasure to welcome Dr. Eric Bond of Australia, Professor Jean Buré of France, and Dr. W. Schafer of Germany.

The Chief Chemist visited Switzerland, Austria, Germany, Netherlands, Belgium, France, England, Scotland and Ireland, and attended four scientific meetings sponsored by cereal chemists in various countries. He thus had opportunity to renew acquaintanceship with, or meet for the first time, most of the leading cereal chemists in Europe. Opportunity was found to spend some time in several of the larger European cereal laboratories, and to visit a number of mills and bakeries. Special mention must be made of a series of five meetings with millers in different parts of England. Lively and profitable discussions took place at each of these meetings.

These and other visits by members of the Laboratory's staff have brought closer co-operation with foreign cereal chemists and a better appreciation both of the methods they use and their general viewpoint in assessing the quality of imported and domestic wheats. At the same time opportunity presents itself for explaining the Canadian viewpoint and the various problems that Canada faces in producing and marketing grains. It is hoped that this liaison can be continued and expanded with mutual advantage to all concerned.

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APPENDIX I

Canadian Government Elevators

A. E. Jacobson, General Manager

In accordance with the provisions of Section 166 of the Canada Grain Act and Order-in-Council P.C. 1372 of August 19, 1925, the Board manages and operates five interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge and one terminal elevator at Prince Rupert, and leases one terminal elevator at Port Arthur.

In the 1955-56 crop year the interior elevators were operated under Public Terminal Elevator Licence. The Prince Rupert elevator was operated under a Semi-Public Terminal Elevator Licence and the Port Arthur elevator continued under lease to McCabe Grain Company Limited.

Handlings

Receipts in the crop year 1955-56 were twenty-two per cent higher than the previous crop year while shipments were thirty-seven per cent higher. This is reflected in total stocks in store at the end of the crop year which are 1.9 million bushels lower than at the beginning of the year. Wheat and barley constituted the major portion of receipts at 5.7 million and 5.3 million bushels respectively. Receipts and shipments by elevators during the crop year were:

Elevator	Capacity	Stocks August 1, 1955	Net Receipts	Net Shipments	Stocks July 31, 1956
	million bu.	bu.	bu.	bu.	bu.
Moose Jaw-----	5.50	5,484,192	1,586,869	2,055,296	5,020,858
Saskatoon-----	5.50	4,867,397	3,412,495	4,489,155	3,807,796
Calgary-----	2.50	1,472,447	1,985,803	1,715,538	1,742,266
Edmonton-----	2.35	1,855,563	674,191	1,656,534	873,170
Lethbridge-----	1.25	1,166,957	10,900	10,611	1,167,245
Prince Rupert-----	1.25	594,316	4,780,535	4,415,531	956,583
Totals-----	18.35	15,440,872	12,450,793	14,342,665	13,567,918

Charges

Storage and elevation charges were unchanged from the previous year. Storage charges were 1/45c per bushel per day at interior elevators; 1/35c per bushel per day at Prince Rupert. Elevation charges at Prince Rupert were the same as those in effect at the Lakehead and other Pacific Coast terminal elevators but at the interior elevators, elevation charges on wheat, oats, barley and corn at 1 1/8c per bushel were lower by 1c and on rye at 1 1/8c per bushel and flax at 2 1/4c per bushel were lower by 1 1/2c per bushel than charges at Lakehead and other Pacific terminal elevators.

Maintenance

Elevator trackage and equipment was maintained in good repair. The Dust Control System at Prince Rupert was completed. A contract has been entered into for a similar installation at the Moose Jaw elevator.

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The Staff Building for Saskatoon, commenced in the previous year, was completed and a similar building was erected at Calgary. During the same period a new Millwright Shop was constructed at Edmonton. Hopper scales at Moose Jaw, Saskatoon and Calgary elevators were completely re-conditioned.

Extensive repairs to concrete surfaces of the buildings and bins of the Lethbridge and Prince Rupert elevators commenced in 1954, were completed. Similar repairs at the Edmonton and Port Arthur elevators are still in progress.

Installation of additional safety measures, such as fire escapes and stairwell enclosures, for safety of personnel and for retarding the spread of fire and/or explosion, was commenced at all interior elevators and Prince Rupert elevator. These are expected to be completed in 1957. These measures have already been installed in the Port Arthur elevator.

Staff

Staff employed as at December 31, 1956, compared with figures at December 31, 1955, is as follows:

	1956		1955	
	Total including Casuals	Casuals	Total including Casuals	Casuals
Winnipeg (Head Office).....	8	—	8	—
Moose Jaw.....	31	4	28	2
Saskatoon.....	41	15	35	12
Calgary.....	36	6	33	4
Edmonton.....	40	13	32	6
Lethbridge.....	19	1	20	1
Prince Rupert.....	47	24	37	15
	222	63	193	40

Revenue and Expenditure

Revenue and expenditure for the fiscal year 1955-56 compared with the previous fiscal year were as follows:

	1955-56	1954-55
Revenue.....	\$1,634,032	\$1,733,618
Expenditure.....	1,143,983	1,050,920
Surplus.....	490,049	682,698

For the first nine months of the current fiscal year revenue was \$1,794,974, and expenditure was \$940,540.

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APPENDIX J

Table J-1.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year Ended March 31, 1956

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$	\$	\$	\$	\$
WINNIPEG					
Executive-----	58,001.70	9,517.00	6,479.28	12,809.52	86,807.50
Assistant Commissioner-----	10,959.96	831.00	1,760.39	274.25	13,825.60
Licence and Bonding-----	22,975.48	2,040.00	—	2,633.09	27,648.57
Registration-----	32,553.02	2,910.48	199.50	1,363.42	37,026.42
Research Laboratory-----	133,381.41	17,932.00	4,644.45	52,280.36	208,238.22
Statistics-----	75,190.00	5,985.14	1,269.51	24,097.38	106,542.03
Appeal Tribunal-----	5,700.00	584.40	—	1,430.24	7,714.64
Standards Committee-----	—	—	2,842.88	1,960.00	4,802.88
Inspection-----	555,755.61	26,473.40	4,478.90	27,982.27	614,690.18
Weighing-----	56,020.31	1,526.38	919.28	1,367.27	59,833.24
CHURCHILL					
Inspection-----	17,987.18	1.00	7,415.24	975.55	26,378.97
Weighing-----	11,236.38	—	4,182.00	272.24	15,690.62
KEEWATIN					
Inspection-----	6,369.36	—	—	20.40	6,389.76
Weighing-----	8,535.65	—	—	55.58	8,591.23
REGINA					
Assistant Commissioner-----	2,578.54	352.65	1,097.62	358.46	4,387.27
SASKATOON					
Assistant Commissioner-----	17,321.54	—	5,524.78	618.43	23,464.75
Inspection-----	32,857.28	877.00	—	931.95	34,666.23
Weighing-----	24,351.69	—	1,599.47	22.50	25,973.66
MOOSE JAW					
Inspection-----	33,000.35	1,440.00	220.52	1,019.98	35,680.85
Weighing-----	14,401.72	—	—	12.89	14,414.61
MEDICINE HAT					
Inspection-----	10,410.00	841.00	—	286.70	11,537.70
Weighing-----	12,054.07	—	—	54.71	12,108.78
LETHBRIDGE					
Inspection-----	10,170.00	—	—	36.49	10,206.49
Weighing-----	6,750.00	—	—	5.00	6,755.00
CALGARY					
Assistant Commissioner-----	10,541.88	828.00	3,908.89	410.24	15,689.01
Inspection-----	93,134.59	3,001.00	100.40	4,451.91	100,687.90
Weighing-----	41,903.64	314.04	193.95	311.29	42,722.92
Appeal Tribunal-----	5,700.00	420.00	—	1,193.78	7,313.78
EDMONTON					
Inspection-----	107,982.79	8,754.00	156.60	4,906.63	121,800.02
Weighing-----	12,171.72	—	—	124.43	12,296.15
Appeal Tribunal-----	8,691.55	1,170.00	363.41	1,604.21	11,829.17

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Table J-1 —EXPENDITURE, by Point, Branch and General Item, Fiscal Year Ended March 31, 1956—Concluded

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$	\$	\$	\$	\$
VANCOUVER					
Inspection	162,310.72	6,965.40	1,064.77	4,904.69	175,245.58
Weighing	154,974.60	2,675.40	1,590.07	2,567.12	161,807.19
Registration	9,840.00	1,795.20	—	338.76	11,973.96
VICTORIA					
Inspection	8,259.04	—	387.56	7.00	8,653.60
Weighing	6,833.46	—	694.82	—	7,528.28
PRINCE RUPERT					
Inspection	10,063.59	—	1,316.15	117.00	11,496.74
Weighing	6,717.03	—	1,865.35	42.00	8,624.38
FORT WILLIAM					
Inspection	690,074.04	18,492.00	4,278.00	14,940.52	727,784.56
Weighing	529,662.28	3,972.00	31,183.04	10,282.71	575,100.03
TORONTO					
Inspection	8,855.04	1,200.00	49.85	675.69	10,780.58
Weighing	4,020.00	—	—	3.60	4,023.60
CHATHAM					
Inspection	40,988.70	1,380.00	15,973.36	2,294.26	60,636.32
MONTREAL					
Inspection	96,507.77	4,296.00	12,986.61	2,390.58	116,180.96
Weighing	4,513.30	939.36	162.80	517.47	6,132.93
Registration	13,475.30	1,064.64	—	434.98	14,974.92
Totals	3,185,782.29	128,578.49	118,909.45	183,387.55	3,616,657.78

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Table J-2.—Accrued Revenue, by Point and Branch, Fiscal Year Ended March 31, 1956

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
	\$	\$	\$	\$
WINNIPEG				
Executive.....	—	—	16,035.00	16,035.00
Licence and Bonding.....	29,329.00	—	—	29,329.00
Registration.....	24,115.42	—	6.92	24,122.34
Appeal Tribunal.....	1,875.00	—	—	1,875.00
Research Laboratory.....	—	—	—	—
Inspection.....	343,397.71	10,242.88	4,668.74	358,309.33
Weighing.....	28,153.70	—	1,751.99	29,905.69
CHURCHILL				
Inspection.....	43,296.51	—	—	43,296.51
Weighing.....	22,221.26	—	—	22,221.26
KEEWATIN				
Inspection.....	6,061.95	—	423.36	6,485.31
Weighing.....	7,780.63	—	568.40	8,349.03
SASKATOON				
Inspection.....	21,681.22	857.74	—	22,538.96
Weighing.....	11,298.85	—	35.68	11,334.53
MOOSE JAW				
Inspection.....	9,262.73	261.63	—	9,524.36
Weighing.....	4,709.02	—	—	4,709.02
MEDICINE HAT				
Inspection.....	10,022.51	425.67	—	10,448.18
Weighing.....	10,879.86	—	555.43	11,435.29
LETHBRIDGE				
Inspection.....	598.52	96.25	3.64	698.41
Weighing.....	21.31	—	—	21.31
CALGARY				
Inspection.....	81,279.23	1,902.94	385.75	83,567.92
Weighing.....	17,152.78	—	939.63	18,092.41
Appeal Tribunal.....	1,362.00	—	—	1,362.00
EDMONTON				
Inspection.....	69,741.95	1,442.41	344.00	71,528.36
Weighing.....	3,616.80	—	—	3,616.80
Appeal Tribunal.....	744.00	—	—	744.00
VANCOUVER				
Inspection.....	190,179.52	6,371.73	368.27	196,919.52
Weighing.....	153,104.06	—	446.37	153,550.43
Registration.....	7,940.93	—	—	7,940.93

TRADE AND COMMERCE

Table J-2.—Accrued Revenue, by Point and Branch, Fiscal Year Ended March 31, 1956
Concluded

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
	\$	\$	\$	\$
VICTORIA				
Inspection.....	4,904.08	105.05	—	5,009.13
Weighing.....	3,563.89	—	—	3,563.89
PRINCE RUPERT				
Inspection.....	8,275.64	136.97	1.73	8,414.34
Weighing.....	5,951.81	—	2.36	5,954.17
FORT WILLIAM				
Inspection.....	588,583.14	11,569.93	2,684.01	602,837.08
Weighing.....	454,840.52	—	4,144.32	458,984.84
TORONTO				
Inspection.....	5,441.80	102.75	104.78	5,649.33
Weighing.....	4,020.00	—	—	4,020.00
CHATHAM				
Inspection.....	64,419.06	942.31	2,462.70	67,824.07
MONTREAL				
Inspection.....	10,060.14	509.81	853.42	11,423.37
Registration.....	8,739.54	—	—	8,739.54
Totals.....	2,258,626.09	34,968.07	36,786.50	2,330,380.66

(a) Details in Table J-4.

BOARD OF GRAIN COMMISSIONERS

Table J-3.—Accrued Revenue and Net Expenditure by Points and Branches, Fiscal Year ended March 31, 1956

	Inspection	Weighing	Appeal Tribunals	Registra- tion	License and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Adminis- tration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
REVENUE										
Winnipeg-----	358,309.33	29,905.69	1,875.00	24,122.34	29,329.00	—	—	—	16,035.00	459,576.36
Churchill-----	43,296.51	22,221.26	—	—	—	—	—	—	—	65,517.77
Keewatin-----	6,485.31	8,349.03	—	—	—	—	—	—	—	14,834.34
Saskatoon-----	22,538.96	11,334.53	—	—	—	—	—	—	—	33,873.49
Moose Jaw-----	9,524.36	4,709.02	—	—	—	—	—	—	—	14,233.38
Medicine Hat-----	10,448.18	11,435.29	—	—	—	—	—	—	—	21,883.47
Lethbridge-----	698.41	21.31	—	—	—	—	—	—	—	719.72
Calgary-----	83,567.92	18,092.41	1,362.00	—	—	—	—	—	—	103,022.33
Edmonton-----	71,528.36	3,616.80	744.00	—	—	—	—	—	—	75,889.16
Vancouver-----	196,919.52	153,550.43	—	7,940.93	—	—	—	—	—	358,410.88
Victoria-----	5,009.13	3,563.89	—	—	—	—	—	—	—	8,573.02
Prince Rupert-----	8,414.34	5,954.17	—	—	—	—	—	—	—	14,368.51
Fort William-----	602,837.08	458,984.84	—	—	—	—	—	—	—	1,061,821.92
Toronto-----	5,649.33	4,020.00	—	—	—	—	—	—	—	9,669.33
Chatham-----	67,824.07	—	—	—	—	—	—	—	—	67,824.07
Montreal-----	11,423.37	—	—	8,739.54	—	—	—	—	—	20,162.91
Totals-----	1,504,474.18	735,758.67	3,981.00	40,802.81	29,329.00	—	—	—	16,035.00	2,330,380.66

Table J-3.—Accrued Revenue and Net Expenditure by Points and Branches, Fiscal Year ended March 31, 1956 (Concluded)

	Inspection	Weighing	Appeal Tribunals	Registra- tion	License and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Adminis- tration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
EXPENDITURE										
Winnipeg.....	614,690.18	59,833.24	7,714.64	37,026.42	27,648.57	106,542.03	208,238.22	4,802.88	100,633.10	1,167,129.28
Churchill.....	26,378.97	15,690.62	—	—	—	—	—	—	—	42,069.59
Keewatin.....	6,389.76	8,591.23	—	—	—	—	—	—	—	14,980.99
Regina.....	—	—	—	—	—	—	—	—	4,387.27	4,387.27
Saskatoon.....	34,666.23	25,973.66	—	—	—	—	—	—	23,464.75	84,104.64
Moose Jaw.....	35,680.85	14,414.61	—	—	—	—	—	—	—	50,095.46
Medicine Hat.....	11,537.70	12,108.78	—	—	—	—	—	—	—	23,646.48
Lethbridge.....	10,206.49	6,755.00	—	—	—	—	—	—	—	16,961.49
Calgary.....	100,687.90	42,722.92	7,313.78	—	—	—	—	—	15,689.01	166,413.61
Edmonton.....	121,800.02	12,296.15	11,829.17	—	—	—	—	—	—	145,925.34
Vancouver.....	175,245.58	161,807.19	—	11,973.96	—	—	—	—	—	349,026.73
Victoria.....	8,653.60	7,528.28	—	—	—	—	—	—	—	16,181.88
Prince Rupert.....	11,496.74	8,624.38	—	—	—	—	—	—	—	20,121.12
Fort William.....	727,784.56	575,100.03	—	—	—	—	—	—	—	1,302,884.59
Toronto.....	10,780.58	4,023.60	—	—	—	—	—	—	—	14,804.18
Chatham.....	60,636.32	—	—	—	—	—	—	—	—	60,636.32
Montreal.....	116,180.96	6,132.93	—	14,974.92	—	—	—	—	—	137,288.81
Totals.....	2,072,816.44	961,602.62	26,857.59	63,975.30	27,648.57	106,542.03	208,238.22	4,802.88	144,174.13	3,616,657.78

BOARD OF GRAIN COMMISSIONERS

Table J-4.—Summary of Operations by Branches, Fiscal Year ended March 31, 1956

	Inspection	Weighing	Appeal Tribunals	Registra- tion	License and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Adminis- tration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
REVENUE										
Fees.....	1,457,205.71	727,314.49	3,981.00	40,795.89	29,329.00	—	—	—	—	2,258,626.09
Samples Sold.....	34,968.07	—	—	—	—	—	—	—	—	34,968.07
Other Revenue.....	7,951.42	8,402.18	—	—	—	—	—	—	—	16,353.60
Overtime Refunded.....	4,281.75	—	—	—	—	—	—	—	—	4,281.75
Express Charges.....	60.00	42.00	—	—	—	—	—	—	—	102.00
Jury Fees.....	—	—	—	—	—	—	—	—	16,035.00	16,035.00
Fines.....	—	—	—	—	—	—	—	—	—	—
Refund of Previous Year's Expenses.....	7.23	—	—	—	—	—	—	—	—	7.23
Miscellaneous Revenue.....	—	—	—	6.92	—	—	—	—	—	6.92
Totals.....	1,504,474.18	735,758.67	3,981.00	40,802.81	29,329.00	—	—	—	16,035.00	2,330,380.66
EXPENDITURE										
Salaries.....	1,884,726.06	894,145.85	20,091.55	55,868.32	22,975.48	75,190.00	133,381.41	—	99,403.62	3,185,782.29
Rent.....	73,720.80	9,427.18	2,174.40	5,770.32	2,040.00	5,985.14	17,932.00	—	11,528.65	128,578.49
Travel.....	48,427.96	42,390.78	363.41	199.50	—	1,269.51	4,644.45	2,842.88	18,770.96	118,909.45
General Expenses.....	53,436.95	10,144.42	4,181.52	1,134.39	1,607.61	4,754.99	46,139.52	1,960.00	12,119.14	135,478.54
Printing and Stationery.....	12,504.67	5,494.39	46.71	1,002.77	1,025.48	19,342.39	6,140.84	—	2,351.76	47,909.01
Totals.....	2,072,816.44	961,602.62	26,857.59	63,975.30	27,648.57	106,542.03	208,238.22	4,802.88	144,174.13	3,616,657.78

APPENDIX K

Regulations

Regulations in effect December 31, 1956, made in accordance
with the provisions of the Canada Grain Act

Regulation
No.

- 1 Registration and Cancellation of Terminal Elevator Warehouse Receipts.
- 2 Registration and Cancellation of Eastern Warehouse Receipts and Transfer Receipts.
- 3 Plans re Terminal and Eastern Elevators.
- 4 Cleaning Grain and Bins, Terminal Elevators.
- 5 Off Grades for Western Grain.
- 6 Off Grades for Eastern Grain.
- 7 Grades of Screenings.
- 8 Inspection of Samples taken other than at an Inspection Point.
- 9 Appeals from Inspecting Officers to Grain Appeal Tribunals.
- 10 Delivery of Grain to Ocean Vessels at Montreal, Quebec.
- 11 Delivery of Grain to Ocean Vessels at West Saint John, N.B.
- 12 Delivery of Grain to Ocean Vessels at East Saint John, N.B.
- 13 Delivery of Grain to Ocean Vessels at Halifax, N.S.
- 14 Enforcement of Lien by Sale of Grain.
- 15 Drying of Grain.
- 16 Fees.
- 17 Records, Reports and Returns.
- 18 Procedure, Country Elevators.
- 19 Receipt for Grain Delivered to Private Country Elevators and Mill Elevators.
- 20 Maximum Tariff of Charges, Eastern Elevators.
- 21 Maximum Tariff of Charges and Shrinkage Allowance, Country Elevators.
- 22 Maximum Tariff of Charges, Terminal Elevators.
- 23 Applications for Licences and Terms and Conditions under which Licences are issued.
- 24 Storage in Transit of Grain Grown Outside Canada.
- 25 Tickets and Receipts — Country Elevators.
- 26 Grain Treated with Poisonous Materials.
- 27 Shipment of Infested Grain.

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CANADA

Grain Commissioners, Board

ANNUAL REPORT

OF THE

Board of Grain Commissioners for Canada

FOR THE YEAR

1957

DEPARTMENT OF TRADE AND COMMERCE

OTTAWA, CANADA

Minister:

HON. GORDON CHURCHILL, M.P.

Deputy Minister:

MITCHELL W. SHARP

EDMOND CLOUTIER, C.M.G., O.A., D.S.P.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1958.

Price: 35 cents.



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Winnipeg, Manitoba,
January 24, 1958.

The Honourable Gordon Churchill, M.P.,
Minister of Trade and Commerce,
Ottawa, Canada.

Sir:

We beg to submit herewith Report of the Board of Grain Commissioners for Canada for the year 1957 in compliance with Section 23 of the Canada Grain Act.

This report records information and statistics relating to grain handlings for the crop year August 1, 1956 to July 31, 1957, expenditures and revenue for the fiscal year April 1, 1956 to March 31, 1957, and summarizes the major activities of the Board for the 1957 calendar year.

Grain Supplies and Disposition—Crop Year 1956-57

Heavier crops, reduced exports, increased domestic usage and a record closing carryover featured the 1956-57 grain crop season in Canada.

A total of 827.4 million bushels of the five principal grains were on hand August 1, 1956, either in licensed storage, in farmers' bins or in transit between positions. To these supplies the substantial 1956 crops added an all Canada production total of 1,409.7 million bushels made up of 573.1 millions of wheat, 524.4 millions of oats, 269.1 millions of barley, 8.6 millions of rye and a record 34.5 millions of flaxseed. This available supply total of 2,237.1 million bushels of the five principal grains represented a 353.4 million bushel gain over the 1955-56 Crop Year level.

Export shipments, either as grain or in the form of wheat flour and milled oats, absorbed 385.4 million bushels of these supplies. Canadians, themselves, used a record quantity—732.0 million bushels of the five grains—for human consumption, commercial products, animal feed and seed during the crop season. Despite this heavy combined disappearance of 1,117.4 millions the volume of grain held at the close of the crop season on July 31, 1957, amounted to 1,119.7 millions—a record year end carryover.

Grain movement from farm to market maintained a moderate steady pattern during the 1956-57 crop season. Shipping during the fall months was heavier than over the opening period of 1955-56 but winter and spring handlings were light and in comparison did not rise to the peak levels recorded during the previous year. The overall volume, however, compared favourably and represented above average handlings in most sectors—an exception being the eastern seaboard traffic which declined noticeably during the year under review.

Marketings

Primary grain deliveries from Canadian farms to the licensed elevator system totalled 588.7 million bushels of wheat, oats, barley, rye and flaxseed, combined. This inward volume represented a 20.0 million bushel increase over 1955-56 marketings and was the fourth heaviest delivery total on record. Receipts at western country elevators accounted for 578.6 million bushels of this total; prairie farmers marketed a further 6.5 million bushels at other interior elevators and mills, and shipped .3 million bushels over loading platforms. A slightly increased volume of eastern grown grain, chiefly wheat, moved into the licensed system during 1956-57—3.3 millions compared with only 1.4 millions in 1955-56.

Country Elevator Shipments

Grain car loadings at country points over the Crop Year totalled 560.7 million bushels and exceeded the previous year's rail movement by 20.9 millions. Shipments of wheat—359.4 millions, and of flaxseed—26.9 millions, were heavier than during the previous year; barley movement was steady at 116.0 million bushels while rail traffic of oats (52.5 millions) and rye (5.9 millions) was down from 1955-56 levels. A slightly higher percentage of these cars moved westward—24.2% compared with 21.0% in 1955-56.

Terminal Handlings

These heavier country elevator shipments were not paralleled by similar forwarding at the Lakehead. Fort William-Port Arthur grain unloads at 351.0 million bushels all grains were 17.3 millions above the previous year but declines in the vessel loadings of wheat, barley and rye cut the total outward movement to 329.6 million bushels compared with 348.0 millions in 1955-56. As a result Lakehead terminal stocks were held at a relatively high level throughout the season; an average storage of 64.1 million bushels of the five principal grains was recorded over the year and a peak stock of 81.6 million bushels was reached just prior to the opening of navigation.

This reduced Great Lakes traffic stemmed from a sharp decline in Eastern Seaboard exports and a consequent slowdown throughout the eastern system. Canadian Atlantic Seaboard ports, St. Lawrence and Maritime, reported a 47.8 million bushel drop in ocean shipping during the crop year. Movement during the fall months of 1956 was relatively strong but clearances from February to July, 1957, were only a fraction of the previous season's closing export traffic. Minor gains in shipments of flaxseed were offset by a drop of 49.1 million bushels in wheat clearances (101.5 millions) and total vessel loadings of the five principal grains combined through this ocean shipping sector amounted to only 145.2 million bushels compared with 193.0 millions handled by these eastern seaboard elevators in 1955-56.

The Port of Churchill, shipping during the stronger fall export period, increased its overseas wheat loadings in 1956-57 to 48 boats with a total cargo of 16.3 million bushels of wheat.

In contrast to the reduced eastern seaboard traffic, Pacific coast terminals established a new all-time record for ocean grain shipments during the 1956-57 season. The 139.0 million bushels of wheat, oats, barley and flaxseed loaded to ocean vessels were approximately 5.1 million bushels heavier than the former combined grains record established in 1953-54 and were more than 25.0 millions above the 1955-56 outward movement.

Exports

Canada's 1956-57 grain and flour exports were made up of 228.3 million bushels of wheat, 34.5 millions of wheat flour (expressed in terms of wheat bushels), 18.3 millions of oats, .4 millions of milled oats (grain equivalent), 76.9 million bushels of barley, 5.4 millions of rye and a record of 21.6 million bushels of flaxseed. The combined grain and flour total of 385.4 million bushels, although down 16.7 millions from 1955-56 levels, was still 67.5 million bushels better than the long term, 30 year average of Canadian grain and flour exports (317.9 million bushels). As noted in the forwarding review, the shipping pattern was in definite contrast to the heavy closing trade recorded in 1955-56. Shipments during the first six months totalled 206.0 millions and were 51.4 millions above the exports for the opening half of 1955-56; from February 1,

BOARD OF GRAIN COMMISSIONERS

1957 to July 31, clearances dropped to 179.4 millions compared with 247.5 million bushels moved during the last half of the preceding season. Principal reduction in the Canadian export trade was in clearances of wheat in grain form—down 40.9 millions from the previous year. This drop, coupled with more moderate declines in clearances of wheat flour and rye, reduced Canada's share of an expanding international bread grain trade to an estimated 22% compared with 28% of the 1955-56 world movement. Compensating in part for the lighter wheat and rye exports were expanded clearances of Canadian oats, barley and flaxseed. Oats exports including rolled oats and oatmeal climbed to 18.7 million bushels from 4.1 millions in 1955-56; barley clearances advanced 12.6 millions to 76.9 millions. Exports of Canadian flaxseed at 21.6 million bushels represented an all-time record for clearances of this grain. These heavier coarse grain clearances increased Canada's percentage of the world coarse grain trade to an estimated 16% compared with approximately 14% in 1955-56.

Domestic Usage

Crop year balances indicate a Canadian domestic grain disappearance of approximately 732.0 million bushels during 1956-57. This includes grain used on farms for seed and feed as well as quantities absorbed by mills and processors for the production of flour for Canadian use, cereals, feed products, oils, industrial alcohol, malt and other commercial products derived from grain. This consumption represented a further increase in Canadian home grain usage which has been rising steadily over the past several years.

Carryover

The supplies of 1,119.7 million bushels of the five principal grains held by Canada in elevators, in transit and in farm bins at the close of the season represented a record July 31 carryover. These supplies were approximately 35% above the 827.4 million bushels held in similar positions on July 31, 1956, and some 141% above the ten-year (1947-56) average of 464.0 millions. An increase of 34.4 million bushels in the volume of wheat in licensed storage was the only major change in the quantities held in visible elevator and transit positions with the big increases in year end stocks of wheat and oats occurring in farm held supplies which were at the highest levels on record. The breakdown of the July 31, all-position carryover with last year's totals in brackets was estimated as follows:—wheat 729.2 (579.6), oats 226.1 (119.1), barley 142.7 (110.9), rye 14.1 (15.3) and flaxseed 7.6 (2.5) all millions of bushels.

Licensing and Bonding

The total licensed storage capacity at July 31, 1957, was 628,302,350 bushels including 15,142,090 bushels in special annexes. Licences were in effect for 5,468 country, terminal, mill and eastern elevators; an increase of 13,623,450 bushels capacity and a decrease of seventeen licences over the same date in 1956. Approximately one-half of the increase in storage capacity occurred at country elevators.

Assistant Commissioners

Through its four Assistant Commissioners, the Board kept in close touch with the operation of licensed country elevators in the Western Division. During the year 1957, the Assistant Commissioners inspected 687 elevators in Manitoba, 1,043 in Northern Saskatchewan, 891 in Southern Saskatchewan, and 1,625 in Alberta, a total of 4,246. This inspection included checks on scales, sieves and certain other equipment; deductions for shrinkage and Prairie

TRADE AND COMMERCE

Farm Assistance Act Levy; and posting of current Board Regulations applying to country elevators.

Complaints originating from country points totalled 28, including 3 carried forward from 1956, as compared with 38 in the previous year.

Disposition of complaints investigated was as follows:

	Manitoba	Saskat- chewan	Alberta	Total
No grounds for complaint.....	—	10	1	11
Settlement effected.....	1	7*	—	8
Outside jurisdiction of Board.....	—	1	—	1
Penalty levied against licensee.....	—	1	—	1
Licensee warned.....	1	—	—	1
Complaint withdrawn.....	—	5	—	5
Not yet disposed of.....	—	1	—	1
Totals.....	2	25	1	28

*Includes one formal investigation.

The Assistant Commissioners received and handled numerous inquiries on various matters related to country elevator operation. They also discussed accumulated overages with elevator agents concerned.

Prosecutions

One penalty for a breach of Section 6 of Board Regulation No. 18 was levied and collected in the amount of \$200.00.

Shortages and Overages, Country Elevators

Due to continuation of the congested storage situation at licensed country elevators in the Prairie Provinces, only 1,452 out of a total of 5,360 elevators could be weighed over during the crop year 1956-57 by the companies operating them. The following table contains an analysis and comparison of the results disclosed by these audits:

ELEVATORS REPORTING	1956-57	1955-56
Shortages.....	481	627
Neither overages nor shortages.....	2	2
Overages of less than .25%.....	677	738
Overages of .25% to .50%.....	224	219
Overages over .50%.....	68	67
Total elevators weighed over.....	1,452	1,653

The Board considered that reported overages for some of the elevators were excessively high and summoned a total of ninety-four elevator agents to appear before it at hearings held at Winnipeg, Regina, Saskatoon, Calgary and Edmonton. At these sessions, members of the Board and Assistant Commissioners interviewed the agents and examined records concerning their operations in the presence of superintendents and other senior officials of the elevator companies concerned.

Regulations and Orders

Regulation No. 4 was repealed by the Board on October 28, 1957 and replaced by a new Regulation No. 4 which includes provisions applying to licensed eastern elevators in regard to cleaning of grain and bins.

BOARD OF GRAIN COMMISSIONERS

Minor amendments were made to Regulations Nos. 5, 6 and 15 effective August 1, 1957, to include percentages applying to rapeseed.

Section 20 of Regulation No. 18 was amended effective August 1, 1957 by revising the table of dockage testing equipment and including therein additional items related to rapeseed and mustard seed.

Regulations Nos. 20, 21 and 22 were also amended effective August 1, 1957 by increasing certain maximum elevation charges for eastern, country and terminal elevators. The provision for fifteen days free storage between January 1 and March 31 at eastern elevators was removed from Regulation No. 20. In Regulation No. 21, the Allowance for Invisible Loss and Shrinkage on Flax delivered to country elevators was reduced by one-half of one per cent, to one per cent on straight grades and one and one-half per cent on tough and damp grades. In Section 10 of Regulation No. 20, weights per bushel to be used in assessment of eastern elevator charges were established for rapeseed, mustard seed, peas, soybeans and sunflower seed.

By Order No. 1—1957-58, dated October 16, 1957, the Board altered, effective October 21, 1957, the provisions of a portion of Regulation No. 5 to effect a change in the procedure for grading of Western Barley containing stones, gravel or like material.

By Order No. 2—1957-58, dated October 18, 1957, the Board renewed until further notice its suspension of a provision of Regulation No. 23 relating to storage of grain at licensed country elevators.

Committees on Grain Standards

The Board constituted Committees on Western and Eastern Grain Standards for the Crop Year 1957-58 in accordance with the provisions of Section 25 of the Canada Grain Act. Personnel of these Committees is given in Appendix A.

A special meeting of the Western Committee took place at Winnipeg on January 15, 1957. The Committee decided to eliminate the commercial grade known as Extra No. 2 Feed Barley, effective August 1, 1957, and also named and defined new commercial grades of Rapeseed.

Regular meetings of this Committee were convened on October 17, 1957 and November 15, 1957, to receive reports concerning the quality of the current season's crops and to select and settle standard samples and standard export samples for various grades of Western grain.

The Eastern Committee met in Toronto on August 23, 1957 and November 21, 1957, to establish standard samples for statutory grades of Eastern grown grain.

In both divisions, continued use of previous standard samples was authorized in certain cases where suitable samples for established grades were not available.

Inspection of Grain

The 1957 crop of Red Spring Wheat in the three prairie provinces, particularly in the southern regions, suffered from severe drouth reducing the yield of bushels per acre. This wheat graded no higher than No. 3 Manitoba Northern.

In the central and northern areas all cereal grains were somewhat better, higher in weight per bushel and yield. Unfortunately considerable rain occurred during the third week in August, resulting in lower grades on account of mildew

that took place after the grain had been swathed. Barley and oats also were degraded on this account.

A larger acreage of Rapeseed was seeded, but owing to drouth the yield was sharply reduced, however, grades were maintained as Canada Rapeseed, and No. 2 Canada Rapeseed.

Flaxseed on the whole is far below an average crop owing to the disease "Aster Yellow" that reduced the yield with lower weight per bushel.

The Tame Mustard Seed acreage in southern Alberta, mostly of the oriental variety, was sharply reduced with the yield per acre reported lower than in 1956, but top grades were maintained.

Safflower Seed was grown in volume for the first year in southern Alberta with the result the Western Grain Standards Committee has established commercial grades for this seed effective August 1, 1958.

Research

Information on the quality of 1957 crops of spring wheat, durum wheat, barley and oil seeds was published early in the fall in two protein maps and four crop bulletins, and was also presented at two meetings of the Committee on Western Grain Standards. A new quarterly bulletin on the quality of durum wheat cargoes exported from Canada was started as a companion to the corresponding bulletin on bread wheats. Steady demand for these bulletins shows that they are useful to overseas customers for Canadian wheats. Studies of the qualities of grain at various stages of marketing were also continued throughout the year.

The Laboratory has worked in close co-operation with the Inspection Branch to provide information and services required in settling grading problems. Studies were made of the quality of Standard and standard export samples and of samples of current crops on which laboratory tests were requested. Moisture testing and equipment in the Board's inspection offices was supervised regularly, and C.A.E. electrical moisture meters were installed in ten of the offices. Requests for services to the Canadian Wheat Board, the Grain Division of the Department of Trade and Commerce, Commercial Counsellors and Trade Commissioners in importing countries, and other government agencies continued to increase. As in previous years the Laboratory took a major part in studies, sponsored by the Associate Committee on Grain Research, of the quality of varieties developed by Canadian plant breeders. An active program of applied and basic research was maintained throughout the year.

The first award of the National Research Council Postdoctorate Fellowship, tenable in the Board's Laboratory, was made to Professor Hiroshi Matsumoto of Osaka Women's University, Japan; he arrived last August and will spend a year working in the Basic Wheat Research Section. Dr. Walter Bushuk was awarded a National Research Council Overseas Fellowship and one of the two Rutherford Memorial Fellowships offered each year by the Royal Society of Canada; he was granted leave of absence for one year at the Centre des Recherches sur les Macromolécules at Strasbourg, France. During the year, three members of the staff went abroad to study problems relating to the utilization of Canadian grain in various markets. Dr. Irvine was a member of a mission to Japan in the spring, and returned through Europe. Dr. Meredith attended the European Brewery Congress and made other visits relating to barley utilization. In the fall, Dr. Anderson visited Scandinavia and the principal European markets for wheat.

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Steady progress has been made in the expansion of the Laboratory mentioned in last year's report. Additional space has been obtained on the ground floor for enlargement of the milling and baking section and for consolidation of all routine studies in one area. By the end of the year, the new sample room and laboratory for routine analysis were occupied, and remaining changes will be completed within a few months.

Weighing of Grain

The Weighing Branch of the Board, in addition to providing the usual weighing services, investigated complaints received by the Board on vessel and car out-turn shortages in an effort to determine the cause and where possible assign the liability. Scales at licensed terminal and eastern elevators were inspected periodically by the Board's scale inspector. Additional scale inspections were made at any of these elevators where the Board felt that reported out-turns were particularly unsatisfactory. During the latter part of the year, the Weighing Branch made a special examination and survey at all terminal elevators and at mill elevators receiving weighing services to determine the condition and general efficiency of equipment used in the receiving, weighing and shipping of grain. Details of the work of this Branch are given in Appendix F.

Weighover of Stocks, Terminal and Eastern Elevators

In accordance with the provisions of sections 139 and 140 of the Canada Grain Act, members of the Board's Weighing and Inspection staffs weighed over 30 terminal and 21 eastern elevators during the 1956-57 crop year.

Deferments into the 1957-58 crop year were made at 11 terminal elevators at the Lakehead, 5 terminal elevators at other points and at 9 eastern elevators. It was found necessary to grant these deferments to avoid temporarily halting the operations of elevators concerned with the movement of grain for export commitments. However, it was possible to carry out ten of these deferred weighovers before the end of December, 1957.

Tables G-12 to G-16 of Appendix G contain the results of 51 weighovers carried out in the 1956-57 crop year.

Terminal and Eastern Complaints

During 1957, the Board directed the investigation of 43 complaints regarding the handling of grain at terminal elevators and shipments to Eastern Canada. All but 3 of these complaints related to reports of outturn shortages including 21 on vessel shipments from Fort William and Port Arthur to Eastern Canada and the U.S.A., 17 on vessel shipments between licensed eastern elevators and 2 on carlot shipments unloaded at Fort William and Port Arthur.

These complaints were disposed of as follows:

	Weight	Miscellaneous
No cause of reported discrepancy found.....	37	—
No grounds for complaint.....	1	2
Settlement effected.....	1	—
Complaint withdrawn.....	—	1
Not yet disposed of.....	1	—
Totals.....	40	3

Complaints on Export Shipments

The Board and its officials handled a total of 55 complaints relating to overseas shipments. Of these, 37 complaints concerned outturn weights at overseas destinations and the remaining 18 concerned the quality of grain cargoes.

Disposition of these complaints was as follows:

	Quality	Weight
No cause of reported discrepancy found.....	—	27
No grounds for complaint.....	18	—
Settlement effected.....	—	4
Not yet disposed of.....	—	6
Totals.....	18	37

Statistics

Statistics relating to Canadian grain movement collected and compiled by the Board's Statistics Branch are presented in Appendix G of this Report.

Information Program

Early in 1957, the Board of Grain Commissioners purchased a mobile unit consisting of a one-ton truck (tractor) and a 23-foot semi-trailer and prepared a display and installed it in the trailer.

The main feature of the Exhibit is a display of 22 of the main grades of grain in open containers so that farmers can handle and compare the different grades. Samples of fifty additional grades in plastic containers are carried in a cabinet to enable the Inspector in charge to illustrate almost any grade that the visitor might be interested in.

Coloured photographs illustrate the various phases of the Board's operations and a separate panel of coloured photographs illustrates the types of wheat kernel damage, i.e., frost, immaturity, heat, insect, etc. These, together with pictures of loaves of bread baked from wheat containing the different types of damaged grain, are attached to the walls of the trailer. Murals painted on the outside of the trailer illustrate harvesting operations and pictures of country and terminal elevators.

A map showing the location and capacity of licensed country elevators forms a backdrop for a display of milling fractions and a display of equipment used in grading grain. Posters outlining the organization of the Board and the rights and privileges of the farmer are tacked to the walls.

A portable motor generator supplies electric power for a battery of fluorescent lights, so that the exhibit is not dependent upon an outside supply of power.

A large educational Exhibit prepared by the Exhibition Branch of the Department of Trade and Commerce in 1953, has been shown at nearly all Class "A" and "B" Exhibitions in Western Canada. It has therefore nearly fulfilled its purpose and was used on only three occasions during the year.

This exhibit outlines the organization of the Board of Grain Commissioners with special reference to the provisions of the Canada Grain Act, which affect the farmer. Coloured transparencies illustrate the work of Inspection, Weighing and Research Branches. Average samples of the various grades are also displayed.

BOARD OF GRAIN COMMISSIONERS

An Assistant Commissioner and one or more Grain Inspectors were in charge of the exhibits to answer farmer's questions about the work of the Board or specific questions on grading. Both displays were well patronized and many questions on grain grading and handling were answered to the satisfaction of the farmers and visitors.

The motion picture, "Grain Handling in Canada" was shown at a number of meetings and short courses and to several groups of visitors from foreign countries, during the year. This film is in colour and outlines the work of the Board of Grain Commissioners in supervising the handling of grain from the time it leaves the farmer's hands at the country elevator until it is aboard ship for export. It was taken by the National Film Board and is available through their libraries.

Visitors to the Board Office included a group of Cereal Chemists from The Netherlands, Belgium and Switzerland; a Barley Mission from the United Kingdom; eight Agricultural Experts from Russia; a Milling Mission from Germany; an Agricultural Delegation from Romania; groups of Agriculturalists from Turkey, Pakistan, Burma and Austria.

Other visitors included Trade Commissioners from the United Kingdom, Australia, Germany, Japan, Belgian Congo, Belgium, India, Portugal and Colombia.

After meeting with members of the Board, the visitors were shown through the various Branches by departmental officials who outlined and demonstrated the work of the Board.

Members of the Board and senior officials addressed the annual meetings of producer organizations and meetings of other organizations interested in agriculture in various parts of Canada.

Canadian Government Elevators

During the crop year 1956-57, receipts of grain at the Canadian Government Terminal Elevators operated by the Board at Moose Jaw, Saskatoon, Calgary, Edmonton, Lethbridge and Prince Rupert were 17.0 million bushels and shipments 18.7 million bushels as compared with 12.4 million and 14.3 million bushels respectively, in the previous crop year.

In the fiscal year 1956-57, revenues exceeded expenditures by \$659,137.

Lake Freight Rates

The maximum rates authorized by the Board's Order No. 20 of September 28, 1954, as follows, remained in effect throughout the 1957 season of navigation:

	Wheat and Rye	Barley	Oats
	—cents—		
(a) From: Fort William or Port Arthur, Ontario, To: Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	5½	5¼	5
Port Colborne.....	7½	7¼	6¾
Toronto.....	8	7½	7¼
Kingston.....	8¾	8¼	8
Prescott.....	9	8½	8¼
Montreal, Sorel, Three Rivers and Quebec City, Direct or Transferred at Intermediate Ports.....	16	15¼	14

(b) For grain loaded during the month of December in any year these maximum rates are increased two cents (2c) per bushel to compensate for increased insurance rates.

The average rates charged during the season are given in Table 11 of Appendix G.

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Prairie Farm Assistance Act

Under the provisions of Section 11 of the Prairie Farm Assistance Act, the Board continued to collect the one per centum levy on grain purchased by licensees under the Canada Grain Act. During the crop year 1956-57, the amount collected was \$6,205,862.54. Collections by the Board since the inception of the Prairie Farm Assistance Act to July 31, 1957 total \$101,196,715.41.

Organization and Personnel

Chief Commissioner R. W. Milner visited Great Britain and the Continent during the month of May, 1957, in connection with various matters relating to the Board's work.

The Director of Administrative Services, John Rayner, returned to duty after one year's leave of absence during which he served in Turkey with the Food and Agriculture Organization of the United Nations.

Dr. J. A. Anderson, Chief Chemist, was presented with the Thomas Burr Osborne Medal by the American Association of Cereal Chemists.

Dr. H. E. Gray of the Department of Agriculture was transferred to the staff of the Board to assume full time duties in the control of insect infestation in grain elevators.

P. J. Marples, Chairman of the Grain Appeal Tribunal at Calgary, retired on account of age after 48 years service and he was succeeded by R. E. Forrester, Chairman of the Grain Appeal Tribunal, Edmonton. A. M. Creighton, Grain Inspector in Charge at Edmonton was appointed as Chairman of the Grain Appeal Tribunal at Edmonton. J. H. McLean, Grain Inspector in Charge at Moose Jaw assumed the duties vacated by Mr. Creighton. H. A. Munro succeeded Mr. McLean at Moose Jaw.

At December 31, 1957, the Board's staff totalled 935, an increase of 7 over 1956. The staff of the Canadian Government Elevators numbered 211 including 33 casuals. This is a decrease of 11 during the year.

A chart of the Board's organization will be found immediately following.

Expenditure and Revenue

Total expenditure and accrued revenue of the Board, exclusive of the Canadian Government Elevators, for the fiscal year 1956-57 compared with 1955-56 was as follows:

	1956-57	1955-56
Expenditure.....	\$4,084,163.00	\$3,616,657.78
Revenue.....	3,038,945.00	2,330,380.66

Expenditure for the nine months of the 1957-58 fiscal year to December 31, 1957 totalled \$2,930,732 as against \$3,070,293 for the comparable period during 1956-57. Cash revenue for the same nine-month period amounted to \$1,946,092 as compared with \$2,274,201 in the previous year.

Attached hereto is a series of Appendices which outline in greater detail the work of the Board's Branches.

Respectfully submitted,

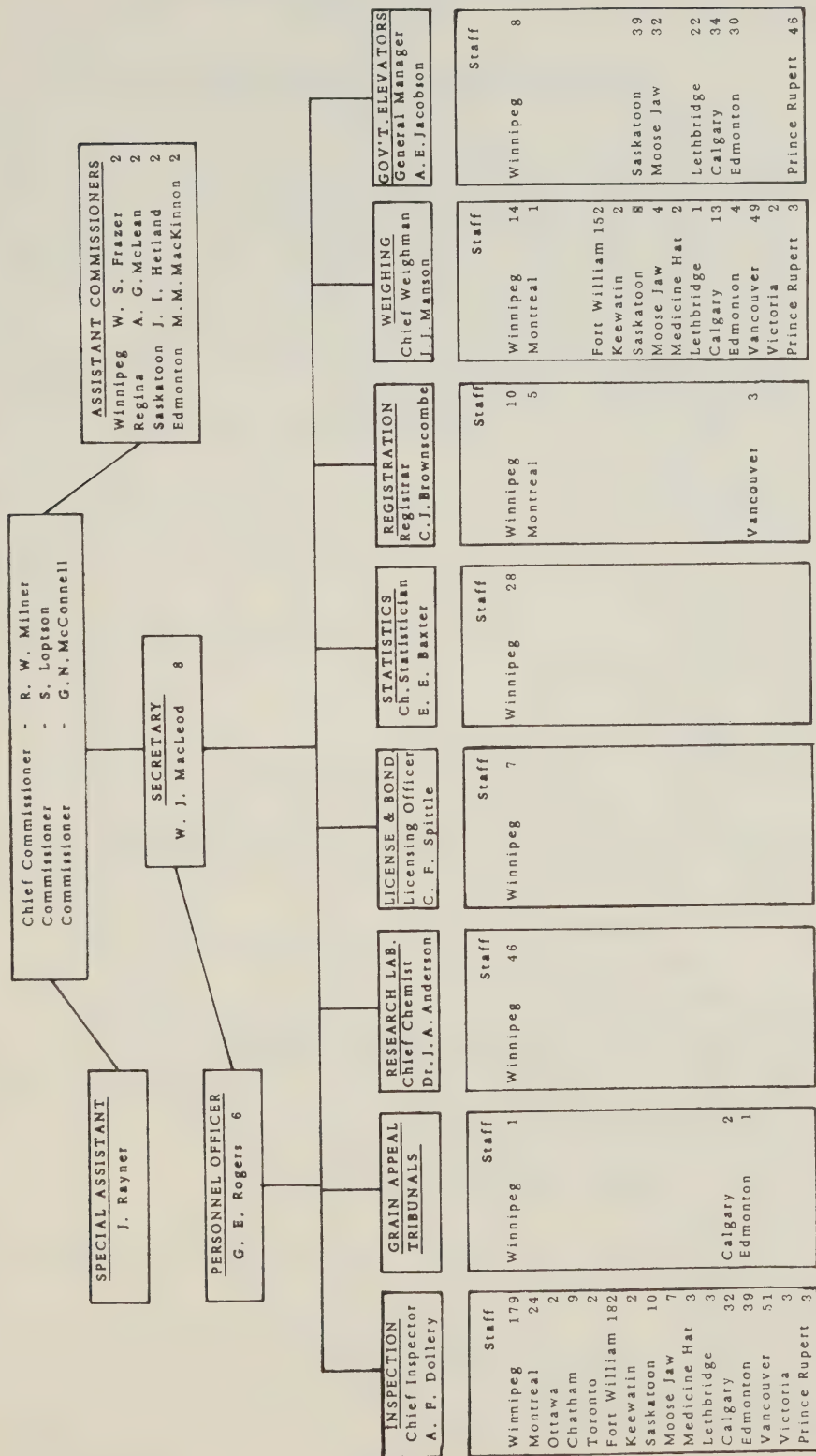
R. W. MILNER,
Chief Commissioner

S. LOPTSON,
Commissioner

W. J. MacLEOD,
Secretary

GEO. N. McCONNELL,
Commissioner

BOARD OF GRAIN COMMISSIONERS FOR CANADA



TRADE AND COMMERCE

APPENDIX A

**Committee on Western Grain Standards, as at
December 31, 1957**

R. W. Milner, Chief Commissioner, Board of Grain Commissioners
S. Loptson, Commissioner, Board of Grain Commissioners
G. N. McConnell, Commissioner, Board of Grain Commissioners
A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
Dr. J. A. Anderson, Chief Chemist, Grain Research Laboratory
D. E. Ross, Chairman, Grain Appeal Tribunal, Winnipeg
R. E. Forrester, Chairman, Grain Appeal Tribunal, Calgary
A. M. Creighton, Chairman, Grain Appeal Tribunal, Edmonton
Dr. D. G. Hamilton, Dominion Cerealists
L. A. McCorquodale, representing the millers of wheat flour

George Bennett.....	}	Representing grain growers in Alberta
W. H. Fairfield.....		
Uri Powell.....		
B. S. Plumer.....		

J. H. Harrison.....	}	Representing grain growers in Saskatchewan
A. P. Gleave.....		
J. Wellbelove.....		
L. L. Gray.....		
N. W. Strelloff.....		

W. J. Parker.....	}	Representing grain growers in Manitoba
R. Barrett.....		
Ray Mitchell.....		

G. Constable, representing grain growers in British Columbia
L. Bell, representing Plant Products Division, Department of Agriculture

**Committee on Eastern Grain Standards, as at
December 31, 1957**

R. W. Milner, Chief Commissioner, Board of Grain Commissioners
S. Loptson, Commissioner, Board of Grain Commissioners
G. N. McConnell, Commissioner, Board of Grain Commissioners
A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
W. G. Thomson, representing Montreal Board of Trade
E. D. Sullivan, representing Toronto Board of Trade
C. Gordon McAuley, representing exporters of grain

F. H. Dunsford.....	}	Representing millers of wheat in the Eastern Division
H. Norman Davis.....		

J. R. Heaney.....	}	Representing grain growers in Ontario
A. McLean.....		

G. C. Nichols, representing growers of corn
E. B. Paterson, Additional
A. Bowman, Additional

APPENDIX B

Grain Appeal Tribunals

Winnipeg	Calgary	Edmonton
D. E. Ross (Chairman)	R. E. Forrester (Chairman)	A. M. Creighton (Chairman)
E. A. Sangster	B. Jenkins	C. C. Young
Wm. E. McLeod	J. Tranter	M. G. Wood
G. A. Turner	W. M. Pringle	J. F. Schofield
James Gregory	A. E. Jones	T. Stickney
R. C. Sproule	W. G. McLeod	D. G. MacKeracher
J. F. Lazenby	G. C. Arbuthnott	H. A. Haggarty
D. K. Mills	A. Watson	C. E. Sage
G. I. Rocan	G. R. Deeton	Ross Saunders
N. Kawka (Secretary)		
Toronto	Montreal	
C. H. Coatsworth	P. J. Smith (Chairman)	
R. C. Pratt	A. W. Brown	
C. W. Heimbecker	E. B. Paterson	
W. A. Robertson	J. A. Byrne	
E. D. Sullivan	J. M. Vittie	
J. Elder	G. D. Robinson	
D. C. Kay, Jr. (Secretary)	Mrs. Muriel B. Hunter (Secretary)	

For information on Appeals of Carlot Inspections refer to Appendix E, Table E-7.

APPENDIX C

Licence and Bonding Branch

C. F. SPITTLE, Licensing Officer

Licences are issued by the Board under the provisions of Section 79 of the Canada Grain Act which section also provides that every applicant for a licence shall furnish security by bond or otherwise for the due performance by the licensee of all obligations imposed upon him by the Act.

The Act provides that no railway company or vessel shall receive any Western grain from any elevator or discharge any such grain into any elevator unless such elevator is licensed.

The Act also provides that, except for contracts for the purchase of grain the consideration payable under which is to be paid in full in cash at the time of the making thereof or contracts for the purchase of grain made on the premises of a recognized grain exchange by or through brokers who are members of such exchange, no person in the Western division may make any contract for the purchase of Western grain by reference to any grade name nor act on behalf of any other person in making such contract on a commission basis, unless he is licensed under the Canada Grain Act as a grain dealer, track buyer or grain commission merchant.

During the crop year 1956-57, 5,540 licences were issued to 109 firms and individuals to handle grain under the Canada Grain Act, or fifteen less than in the previous crop year. In addition, country elevator licensees were authorized to use 417 special annexes, comprising flour sheds, coal sheds, skating rinks and other buildings.

On July 31, 1957, with 5,468 elevator licences in force and 403 buildings authorized for supplementary storage, the total licensed storage capacity was 613,160,260 bushels in elevators, and 15,142,090 bushels in special annexes to country elevators. In addition, 50 Track Buyers', Commission Merchants' and Grain Dealers' licences were also in force. The following table gives a comparative statement of numbers and classes of licences in force and storage capacity:

Kind of Licence	Licences in force July 31		Licensed storage capacity July 31	
	1957	1956	1957	1956
Country Elevators.....	5,360	5,378	360,886,950	353,884,150
Special Annexes to Country Elevators....	*	*	15,142,090	14,518,640
Terminals and Mill Elevators.....	78	77	158,171,010	154,093,810
Eastern Elevators.....	30	30	94,102,300	92,182,300
Track Buyers, Commission Merchants and Grain Dealers.....	50	53	†	†
Totals.....	5,518	5,538	628,302,350	614,678,900

*493 buildings at July 31, 1957, and 402 buildings at July 31, 1956.

†These licences do not cover grain storage facilities.

During the crop year, twenty-two elevator licences were cancelled, one on account of licensee ceasing operation, three destroyed by fire, ten dismantled by licensees, and eight converted into annexes. The authorities covering fourteen special annexes were also cancelled.

BOARD OF GRAIN COMMISSIONERS

Seventy country elevator licences were suspended by the Board for varying periods during rehabilitation and reconstruction of buildings, and one for infraction of the Act. Sixty-seven of these were subsequently reinstated, one was cancelled and three were still under suspension at July 31, 1957.

Guarantee bonds in the amount of \$29,972,836.50 executed by fifteen approved surety companies were deposited with the Board as security under Section 79 of the Canada Grain Act to cover operations of licensees during 1956-57. Three licensees deposited negotiable Government bonds with a par value of \$8,500 in lieu of furnishing the usual form of surety bonds.

At December 1, 1957, at which date essentially all licences were issued for the 1957-58 crop year, there were 5,461 elevator licences in force. In addition, 377 buildings other than elevators were authorized for supplementary storage. The total licensed storage capacity as at December 1, 1957, was 617,239,060 bushels in elevators and 14,952,690 bushels in special annexes, or a total increase of 10,014,050 bushels since December 1, 1956. The total storage capacity by provinces is: Manitoba, 59.7 million; Saskatchewan, 214.3; Alberta, 141.6; British Columbia 26.6; Ontario, 153.1; and Quebec and the Maritimes, 36.9 million bushels.

Table C-1.—Number and Kind of Licences Issued and Licensed Storage Capacity, as at December 1st each year for the Past Five Years

Kind of Licence	1957	1956	1955	1954	1953
NUMBER OF LICENCES					
Public Country Elevator.....	5,343	5,354	5,369	5,352	5,326
Private Country Elevator.....	10	9	10	10	10
Mill Elevator.....	33	32	33	36	40
Public Terminal Elevator.....	—	5	5	6	6
Semi-Public Terminal Elevator.....	40	34	35	34	35
Private Terminal Elevator.....	5	5	5	7	6
Eastern Elevator.....	30	30	30	29	29
Track Buyer.....	21	21	21	21	21
Commission Merchant.....	23	23	25	25	26
Grain Dealer.....	5	5	7	8	9
Totals.....	5,510	5,518	5,540	5,528	5,508
LICENSED CAPACITY					
thousands of bushels					
Public Country Elevator.....	364,661	356,263	343,953	332,454	318,224
Special Annexes.....	14,953	15,080	8,522	5,369	4,411
Private Country Elevator.....	369	337	349	349	349
Mill Elevator.....	13,513	13,451	13,525	13,429	13,495
Public Terminal Elevator.....	—	17,100	17,100	18,350	18,350
Semi-Public Terminal Elevator.....	137,524	118,774	116,624	112,873	114,523
Private Terminal Elevator.....	7,070	7,070	7,070	7,295	7,220
Eastern Elevator.....	94,102	94,102	92,182	90,845	84,929
Totals.....	632,192	622,177	599,325	580,964	561,501

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Table C-2.—Licensed Elevators and Storage as at December 1, 1957

Kind of Elevator	Ontario	Mani- toba	Saskat- chewan	Alberta	British Colum- bia	Quebec and Mari- times	Totals
NUMBER OF ELEVATORS							
Public Country.....	2	697	2,921	1,706	17	—	5,343
Private Country.....	—	3	2	5	—	—	10
Mill.....	3	7	6	10	7	—	33
Public Terminal.....	—	—	—	—	—	—	—
Semi-Public Terminal.....	24	2	2	3	9	—	40
Private Terminal.....	2	2	—	1	—	—	5
Eastern.....	18	—	—	—	—	12	30
Totals.....	49	711	2,931	1,725	33	12	5,461
STORAGE CAPACITY							
			thousands of bushels				
Public Country.....	65	47,863	190,743	124,202	1,788	—	364,661
Special Annexes†.....	1,400	495	7,549	5,509	—	—	14,953
Private Country.....	—	75	61	233	—	—	369
Mill.....	1,480	2,095	4,916	4,095	927	—	13,513
Public Terminal.....	—	—	—	—	—	—	—
Semi-Public Terminal.....	90,517	6,000	11,000	6,100	23,907	—	137,524
Private Terminal.....	2,435	3,145	—	1,490	—	—	7,070
Eastern.....	57,161	—	—	—	—	36,941	94,102
Totals.....	153,058	59,673	214,269	141,629	26,622	36,941	632,192

†Off-site storage.

Collection of One Per Cent Levy

The collection during the crop year 1956-57 of the one per cent levy made by this office under provisions of the Prairie Farm Assistance Act is recorded at \$6,205,862.54, a decrease of \$34,038.23 from collections during the previous crop year.

Table C-3.—Amounts Collected and Grain Purchased under the One Per Cent Levy, Prairie Farm Assistance Act, Crop Year 1956-57

Province	Wheat	Oats	Barley	Rye	Total
	\$	\$	\$	\$	\$
Manitoba.....	507,732.59	126,356.85	224,004.29	6,479.84	864,573.57
Saskatchewan.....	2,915,981.87	186,722.64	480,772.20	24,862.43	3,608,339.14
Alberta.....	1,241,482.94	113,837.30	365,203.94	12,337.15	1,732,861.33
Totals.....	4,665,197.40	426,916.79	1,069,980.43	43,679.42	6,205,774.04
Amount not allocated to provinces.....					88.50
Total collections Aug. 1, 1956 to July 31, 1957.....					6,205,862.54
GRAIN PURCHASES					
		thousands of bushels			
Manitoba.....	39,918	21,696	24,207	637	86,458
Saskatchewan.....	223,607	27,511	53,818	2,572	307,508
Alberta.....	99,058	19,878	42,949	1,248	163,133
Totals.....	362,583	69,085	120,974	4,457	557,099

APPENDIX D

Registration Branch

C. J. BROWNSCOMBE, Registrar

Section 127 of the Canada Grain Act requires the operators or managers of Public terminal, Semi-Public terminal and Eastern Elevators to issue warehouse receipts for all grain taken into store. Regulations No. 1 and No. 2 made by the Board under the provisions of Section 15 (22) of the Canada Grain Act require that all such warehouse receipts be registered with the Board as to grade and quantity at the time of issue and that these warehouse receipts be surrendered to the Board for registration for cancellation when the grain which they represent has been shipped out.

During the Crop Year 1956-57, registration service was provided for licensees of 5 public terminal elevators, 35 semi-public terminal elevators and 30 eastern elevators at the offices maintained by the Board at Montreal, Winnipeg and Vancouver.

Table D-1 of this appendix presents the total bushels, by grains, for which warehouse receipts were registered against unloads of grain and registered for cancellation against shipments of grain together with the averages of these handlings for the past ten years for comparison. In addition to these handlings, service was provided to licensees in the Western Division for the daily registration and registration for cancellation of splits, consolidations, grade adjustments and re-issue of warehouse receipts to facilitate the handling of grain and this work remained at normal levels throughout the crop year.

Records were maintained for each licensee in both the Eastern and Western Divisions, by grade, showing the total quantities registered, registered for cancellation or still outstanding daily, while a separate series of records was maintained to provide the full history of registration and cancellation particulars for all warehouse receipts issued by these licensees. Certified statements of outstanding warehouse receipt grade totals and of handlings for the non-mixing grades of wheat were issued as required for use in connection with the annual weighover of stocks of grain as carried out by Board officials at all terminal and eastern elevators.

The total registrations and registrations for cancellation of all grains for elevators in the Western Division show increases of 45.0 million and 14.0 million bushels respectively over those of the previous crop year and 61.0 million and 45.0 million bushels increases respectively, over those of the ten-year average. While the total bushels registered and registered for cancellation for elevators in the Eastern Division show a decline in comparison to similar handlings for the previous crop year, they show an increase of 44.0 million and 32.0 million bushels respectively, over those of the ten-year average.

Fees for registration services were charged at the rate of 4 cents a thousand bushels for registration and for registration for cancellation in the Western Division, and one cent a thousand bushels for similar service in the Eastern Division. The overall increase in the volume of handlings for registration purposes as shown for the combined Eastern and Western Divisions is reflected in the total fees collected for registration service of \$50,149.67 as compared to the ten-year average of \$45,155.86.

TRADE AND COMMERCE

Table D-1.—Warehouse Receipt Registrations for Primary and Transfer Receipts and Shipments at Public and Semi-Public Terminal Elevators and Eastern Elevators, by Area and Grain, Crop Year 1956-57 and 10-year Average.

Area	Grain	Crop Year 1956-57		10-Year Average, 1946-47 to 1955-56	
		Registered	Registered for Cancellation	Registered	Registered for Cancellation
		—thousands of bushels—			
WESTERN DIVISION— Winnipeg, including Lakehead and Churchill.....	Wheat.....	212,094	191,096	199,022	196,378
	Oats.....	49,174	52,303	69,106	71,063
	Barley.....	71,431	70,040	67,247	66,354
	Flax.....	22,611	21,419	7,412	7,285
	Rye.....	6,600	6,739	11,002	10,862
	Mixed Grain....	477	472	963	635
	Corn.....	—	—	41	52
	Other Grains...	375	446	84	85
INTERIOR ELEVATORS— Calgary, Edmonton, Lethbridge, Moose Jaw and Saskatoon.....	Wheat.....	4,048	5,168	5,234	3,932
	Oats.....	161	206	498	589
	Barley.....	1,194	1,285	1,623	1,708
	Flax.....	629	626	216	221
	Rye.....	28	31	40	37
	Mixed Grain....	—	35	5	25
	Corn.....	15	8	16	12
	Other Grains...	3,393	2,831	333	293
VANCOUVER AND PRINCE RUPERT AREA—	Wheat.....	107,234	105,221	81,141	80,182
	Oats.....	560	1,809	2,686	3,724
	Barley.....	30,212	31,585	8,660	8,446
	Flax.....	3,523	3,127	209	220
	Rye.....	—	—	70	66
	Mixed Grain....	1	46	49	53
	Corn.....	—	—	284	283
	Other Grains...	3,208	3,197	104	104
WESTERN DIVISION— All Points—	Wheat.....	323,376	301,485	285,397	280,492
	Oats.....	49,895	54,318	72,290	75,376
	Barley.....	102,837	102,910	77,530	76,508
	Flax.....	26,763	25,172	7,837	7,726
	Rye.....	6,628	6,770	11,112	10,965
	Mixed Grain....	478	553	1,017	713
	Corn.....	15	8	341	347
	Other Grains...	6,976	6,474	521	482
Totals—All Grains.....		516,968	497,690	456,045	452,609
EASTERN DIVISION—	Wheat.....	294,474	277,531	288,833	284,654
	Oats.....	48,334	48,847	44,134	44,475
	Barley.....	81,498	81,444	68,580	68,357
	Flax.....	37,418	37,153	11,611	11,626
	Rye.....	2,866	3,199	8,910	8,846
	Mixed Grain....	470	477	512	491
	Corn.....	11,103	10,876	16,519	16,578
	Screenings.....	2,826	2,936	1,030	1,015
	Peas.....	241	241	48	54
	Soybeans.....	5,234	5,079	1,977	1,975
	Buckwheat.....	298	189	279	280
	Other Grains...	1,804	1,793	98	97
Totals—All Grains.....		486,566	469,765	442,531	438,448

BOARD OF GRAIN COMMISSIONERS

APPENDIX E

Inspection Branch

A. F. DOLLERY, Chief Grain Inspector

Under Section 32 of the Canada Grain Act, the Grain Inspection Branch in the Western Division samples and grades all grain enroute from country points to terminal and mill elevators or other destinations, at the primary inspection points of Winnipeg, Edmonton and Calgary. All grain is also sampled and graded on delivery to terminal or mill elevators at Saskatoon, Moose Jaw, Medicine Hat and Lethbridge, if such grain has not passed through an inspection point. In addition, inspectors resample and check primary grading of all grain unloaded into terminal and mill elevators at the Lakehead, Churchill, Pacific Coast and interior points, as well as sampling and grading all grain shipped from terminal or mill elevators.

In the Eastern Division, sampling and grading service is provided on request at Chatham and Toronto for Eastern grown grain. At Montreal, Quebec, Sorel, Three Rivers, St. John and Halifax, grain loaded into vessels for export is sampled and the grades are checked. Grades of all grain in store in all terminal and eastern elevators weighed over during the crop year are verified by Inspection Branch officials.

In the crop year ended July 31, 1957, inspections of Western grain at primary points totalled 298,635 carlots compared with 285,521 carlots in the previous crop year. This total is 3.6 per cent higher than the average for the past ten years.

The predominant grade in Red Spring Wheat was No. 3 Manitoba Northern with 29.1 per cent of total wheat inspections. This was mainly due to several heavy frosts experienced in the beginning of the crop year. With 28.8 per cent grading No. 2 Manitoba Northern and 1.3 per cent grading No. 1 Manitoba Northern, the first three grades totalled 59.2 per cent as compared with 65.2 per cent in the previous crop year. Of the Durum Wheat inspected, 46.2 per cent graded No. 4 C.W. No. 2 C.W. showed a percentage of 4.9 per cent—No. 3 C.W. 15.8 per cent—Extra No. 4 C.W. 19.9 per cent—No. 5 C.W. 9.6 per cent and No. 6 C.W. 1.1 per cent, of total Amber Durum inspections.

In this year's crop 48.1 per cent of the Oats inspected graded No. 1 Feed compared with 54.4 per cent in the previous year. In the higher grades of No. 3 C.W. and Extra No. 1 Feed, the percentages were 24.3 per cent and 20.8 per cent respectively, as compared with 21.0 per cent and 13.1 per cent respectively in the previous year.

The predominant grade in Barley was No. 1 Feed with 31.4 per cent, followed by 3 C.W. 6 Row with 28.2 per cent and Extra 2 Feed with 14.1 per cent. In Rye 52.3 per cent graded 3 C.W. and 22.2 per cent 2 C.W., as compared to the previous crop year, 46.6 per cent and 32.3 per cent respectively. The quality of Flax was good this year with 69.2 per cent grading 1 C.W. and 26.6 per cent 2 C.W., or 95.8 per cent of total flax inspections as compared to the previous year of 80.8 per cent and 15.9 per cent respectively.

Mustard seed carlots inspected this crop year were much higher with 580 carlots as compared to 18 the previous year. The main grade in Mustard Seed was No. 1 Canada Western Oriental with 82.1 per cent.

This crop year showed a vast increase in acreage of Rapeseed with 2,375 carlots being inspected as compared to 642 carlots in the previous crop year.

TRADE AND COMMERCE

There was a noticeable increase this year in the number of two pound samples "subject to grade and dockage" submitted. Total inspected being 30,363 as compared to 15,575 the previous year.

Grain inspections on loadings to vessels at the Lakehead, Pacific Coast and Churchill terminal elevators totalled 475 million bushels as compared with 452 million bushels in the previous crop year. Export cargoes shipped from St. Lawrence and Atlantic ports, totalling 145 million bushels, were sampled and checked for grade at loading as compared with 191 million bushels in the previous crop year. Cargoes received at Montreal totalling 82 millions were also sampled and grades checked, as compared with 85 million in the previous crop year.

Eastern grown grain sampled and inspected in carlots totalled 8,143 cars of which 7,335 cars were handled by the Chatham office. In the previous crop year the totals were 11,752 and 10,861 respectively. Wheat accounted for 3,773 cars.

WESTERN DIVISION

Table E-1.—Primary Carlot Inspections by Grains, Crop Year 1956-57, compared with 1955-56 and 10-year Average 1946-47 to 1955-56

	10-Year Average	1956-57	1955-56	10-Year Average	1956-57	1955-56
		Carlots		Percent of total		
Wheat.....	194,921	198,796	190,537	67.6	66.5	66.7
Oats.....	34,791	20,868	21,844	12.1	7.0	7.7
Barley.....	45,174	55,168	54,625	15.7	18.5	19.1
Rye.....	6,321	3,339	6,630	2.2	1.1	2.3
Flaxseed.....	5,505	16,257	10,248	1.9	5.4	3.6
Mixed Grain.....	580	241	243	0.2	0.1	0.1
Corn.....	151	182	212	0.1	0.1	0.1
Buckwheat.....	63	122	143	*	*	0.1
Screenings.....	457	471	322	0.2	0.2	0.1
Rapeseed.....	98	2,375	642	*	0.8	0.2
Sunflower Seeds.....	1	—	—	*	—	—
Peas.....	85	234	57	*	0.1	*
Mustard Seed.....	2	580	18	*	0.2	*
Sample Grain.....	—	2	—	—	*	—
Totals.....	288,149	298,635	285,521	100.0	100.0	100.0

*Less than 0.05%

Table E-2.—Primary Carlot Inspections by Points, Crop Year 1956-57, compared with 1955-56 and 10-year Average 1946-47 to 1955-56

	10-Year Average	1956-57	1955-56	10-Year Average	1956-57	1955-56
		Carlots		Percent of total		
Winnipeg.....	201,036	188,149	185,714	69.8	63.1	65.0
Calgary.....	35,792	46,993	40,971	12.4	15.7	14.3
Edmonton.....	29,887	39,526	34,944	10.4	13.2	12.2
Moose Jaw.....	4,789	4,454	4,503	1.7	1.5	1.6
Saskatoon.....	6,910	7,304	7,780	2.4	2.4	2.7
Lethbridge.....	129	628	28	*	0.2	*
Medicine Hat.....	3,074	1,796	2,275	1.1	0.6	0.8
Vancouver.....	1,837	585	508	0.6	0.2	0.2
Churchill.....	4,695	9,200	8,798	1.6	3.1	3.2
Totals.....	288,149	298,635	285,521	100.0	100.0	100.0

*Less than 0.05%

BOARD OF GRAIN COMMISSIONERS

Table E-3.—Primary Carlot Inspections Crop Year 1956-57, by Grain and Grades

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT			
1 Manitoba Northern.....	2,412	1.3	—
2 Manitoba Northern.....	53,489	28.8	—
3 Manitoba Northern.....	53,918	29.1	—
4 Manitoba Northern.....	25,758	13.9	—
No. 4 Special.....	51	*	—
No. 5.....	29,049	15.6	—
No. 5 Special.....	123	0.1	—
No. 6.....	8,372	4.5	—
Feed.....	423	0.2	—
Sample.....	358	0.2	—
Smutty.....	173	0.1	—
Rejected.....	5,373	2.9	—
Tough.....	6,222	3.3	—
Damp.....	41	*	—
Broken Red Spring.....	2	*	—
Condemned.....	4	*	—
Total Red Spring Wheat.....	185,768	100.0	93.5
2 Canada Western Garnet.....	5	1.8	—
3 Canada Western Garnet.....	190	67.6	—
4 Canada Western Garnet.....	14	5.0	—
Smutty Canada Western Garnet.....	1	0.4	—
Rejected Canada Western Garnet.....	8	2.8	—
Tough Canada Western Garnet.....	63	22.4	—
Total Garnet Wheat.....	281	100.0	0.1
1 Canada Western Amber Durum.....	14	0.1	—
2 Canada Western Amber Durum.....	545	4.9	—
3 Canada Western Amber Durum.....	1,758	15.8	—
Extra 4 Canada Western Amber Durum.....	2,225	19.9	—
4 Canada Western Amber Durum.....	5,146	46.2	—
5 Canada Western Amber Durum.....	1,076	9.6	—
6 Canada Western Amber Durum.....	118	1.1	—
Smutty Canada Western Amber Durum.....	17	0.2	—
Rejected Canada Western Amber Durum.....	117	1.0	—
Tough Canada Western Amber Durum.....	116	1.0	—
Damp Canada Western Amber Durum.....	5	*	—
Sample Canada Western Amber Durum.....	20	0.2	—
Total Amber Durum Wheat.....	11,157	100.0	5.6
2 Canada Western Soft White Spring.....	38	19.1	—
3 Canada Western Soft White Spring.....	94	47.2	—
4 Canada Western Soft White Spring.....	65	32.7	—
Tough Canada Western Soft White Spring.....	2	1.0	—
Total Soft White Spring Wheat.....	199	100.0	0.1
1 Canada Western Mixed Wheat.....	12	10.3	—
2 Canada Western Mixed Wheat.....	7	6.0	—
3 Canada Western Mixed Wheat.....	34	29.3	—
4 Canada Western Mixed Wheat.....	25	21.6	—
5 Canada Western Mixed Wheat.....	11	9.5	—
6 Canada Western Mixed Wheat.....	17	14.7	—
Smutty Canada Western Mixed Wheat.....	1	0.9	—
Rejected Canada Western Mixed Wheat.....	5	4.3	—
Tough Canada Western Mixed Wheat.....	4	3.4	—
Total Mixed Wheat.....	116	100.0	0.1

TRADE AND COMMERCE

Table E-3.—Primary Carlot Inspections, Crop Year 1956-57, by Grain and Grade—
Continued

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT—Concluded			
1 Alberta Red Winter.....	210	16.5	—
2 Alberta Winter.....	714	56.0	—
3 Alberta Winter.....	250	19.6	—
4 Alberta Winter.....	61	4.8	—
Smutty Alberta Winter.....	10	0.8	—
Rejected Alberta Winter.....	30	2.3	—
Total Alberta Winter Wheat.....	1,275	100.0	0.6
Total All Wheats.....	198,796	—	100.0

Grade	Carlots	Percentage
OATS		
2 Canada Western.....	29	0.1
Extra 3 Canada Western.....	426	2.0
3 Canada Western.....	5,077	24.3
Extra 1 Feed.....	4,331	20.8
1 Feed.....	10,032	48.1
2 Feed.....	581	2.8
3 Feed.....	100	0.5
Mixed Feed Oats.....	4	*
Rejected Oats.....	31	0.2
Sample Oats.....	34	0.2
Tough.....	218	1.0
Damp.....	3	*
Mixed Feed Oats Groats.....	2	*
Total Oats.....	20,868	100.0

BARLEY		
2 Canada Western Six Row.....	899	1.6
3 Canada Western Six Row.....	15,572	28.2
4 Canada Western Six Row.....	2,001	3.6
1 Canada Western Two Row.....	2	*
2 Canada Western Two Row.....	203	0.4
3 Canada Western Two Row.....	4,200	7.6
1 Feed.....	17,263	31.4
Extra 2 Feed.....	7,798	14.1
2 Feed.....	3,344	6.1
3 Feed.....	1,147	2.1
Rejected.....	187	0.3
Sample.....	45	0.1
Tough.....	2,490	4.5
Damp.....	17	*
Total Barley.....	55,168	100.0

BOARD OF GRAIN COMMISSIONERS

Table E-3.—Primary Carlot Inspections, Crop Year 1956-57, by Grain and Grades—Cont'd

Grade	Carlots	Percentage
RYE		
1 Canada Western.....	2	0.1
2 Canada Western.....	740	22.2
3 Canada Western.....	1,749	52.3
4 Canada Western.....	403	12.1
Ergoty Rye.....	337	10.1
Rejected.....	21	0.6
Sample.....	3	0.1
Tough.....	79	2.4
Damp.....	1	*
Ergot and Other Grains.....	4	0.1
Total Rye.....	3,339	100.0

FLAXSEED		
1 Canada Western.....	11,251	69.2
2 Canada Western.....	4,321	26.6
3 Canada Western.....	457	2.8
4 Canada Western.....	7	*
Rejected.....	17	0.1
Sample.....	25	0.2
Tough.....	153	0.9
Damp.....	26	0.2
Total Flaxseed.....	16,257	100.0

MIXED GRAIN		
1 Canada Western.....	35	14.5
2 Canada Western.....	22	9.1
3 Canada Western.....	95	39.5
4 Canada Western.....	3	1.2
Rejected.....	16	6.6
Sample.....	53	22.0
Tough.....	9	3.7
Damp.....	8	3.4
Total Mixed Grain.....	241	100.0

CORN		
1 Canada Western Yellow.....	10	5.5
2 Canada Western Yellow.....	37	20.3
3 Canada Western Yellow.....	19	10.4
4 Canada Western Yellow.....	8	4.4
5 Canada Western Yellow.....	2	1.1
Tough.....	5	2.8
Others.....	1	0.6
U.S.A. Origin.....	100	54.9
Total Corn.....	182	100.0

TRADE AND COMMERCE

Table E-3.—Primary Carlot Inspections, Crop Year 1956-57, by Grain and Grades—Cont'd

Grade	Carlots	Percentage
MUSTARD SEED		
Extra 1 Canada Western Yellow.....	1	0.2
2 Canada Western Yellow.....	1	0.2
1 Canada Western Oriental.....	477	82.1
2 Canada Western Oriental.....	23	4.0
3 Canada Western Oriental.....	4	0.7
1 Canada Western Brown.....	30	5.2
2 Canada Western Brown.....	4	0.7
3 Canada Western Brown.....	2	0.3
Sample Canada Western Oriental.....	1	0.2
Sample Canada Western Brown.....	3	0.5
Others.....	22	3.8
U.S.A. Mustard Seed.....	12	2.1
Total Mustard Seed.....	580	100.0
SCREENINGS		
1 Feed.....	7	1.5
Uncleaned.....	316	67.1
Refuse.....	113	24.0
Sample.....	35	7.4
Total Screenings.....	471	100.0
Buckwheat.....	122	—
Peas.....	234	—
Rapeseed.....	2,375	—
Sample Grain.....	2	—
Grand Total.....	298,635	—

*Less than 0.05%

Table E-4.—Carlots of Tough, Damp and Straight Grain Inspected at Primary Inspection Points, Crop Year 1956-57

Grain	Tough	Damp	Tough and Damp	Straight	Total
Wheat.....	6,407	46	6,453	192,343	198,796
Oats.....	218	3	221	20,647	20,868
Barley.....	2,490	17	2,507	52,661	55,168
Rye.....	79	1	80	3,259	3,339
Flaxseed.....	153	26	179	16,078	16,257
Others.....	14	8	22	4,185	4,207
All Grains.....	9,361	101	9,462	289,173	298,635
PERCENTAGE OF TOTAL					
Wheat.....	3.2	0.1	3.2	96.8	100.0
Oats.....	1.0	*	1.1	98.9	100.0
Barley.....	4.5	*	4.5	95.4	100.0
Rye.....	2.4	*	2.4	97.6	100.0
Flaxseed.....	0.9	0.2	1.1	98.9	100.0
Others.....	0.3	0.2	0.5	99.5	100.0
All Grains.....	3.1	*	3.2	96.8	100.0

*Less than 0.05%

BOARD OF GRAIN COMMISSIONERS

**Table E-5.—Number of Two Pound Samples “Subject to Grade and Dockage” Inspected
Crop Year 1956-57 Compared with the Crop Year 1955-56**

Point	1956-57	1955-56
	Number of Samples	
Winnipeg.....	23,183	11,110
Calgary.....	2,148	1,271
Edmonton.....	1,913	1,079
Moose Jaw.....	228	66
Saskatoon.....	1,184	748
Lethbridge.....	1,647	1,246
Medicine Hat.....	60	55
Totals.....	30,363	15,575

Table E-6.—Carlots Re-inspected, Crop Year 1956-57

Point	In- spected	Re-in- spected	Un- changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered
			Number of Carlots				
Winnipeg.....	188,149	13,150	5,378	3,682	276	303	3,511
Calgary.....	46,993	4,406	1,758	1,330	83	176	1,059
Edmonton.....	39,526	5,902	2,524	1,363	39	283	1,693
Saskatoon.....	7,304	324	295	28	—	—	1
Moose Jaw.....	4,454	351	323	26	2	—	—
Medicine Hat.....	1,796	76	42	23	9	—	2
Lethbridge.....	628	—	—	—	—	—	—
Vancouver.....	585	16	13	3	—	—	—
Churchill.....	9,200	—	—	—	—	—	—
Totals.....	298,635	24,225	10,333	6,455	409	762	6,266
		Percentage of Total Re-inspections					
	%	%	%	%	%	%	%
Winnipeg.....	—	100	40.9	28.0	2.1	2.3	26.7
Calgary.....	—	100	39.9	30.2	1.9	4.0	24.0
Edmonton.....	—	100	42.7	23.1	0.7	4.8	28.7
Saskatoon.....	—	100	91.1	8.6	—	—	0.3
Moose Jaw.....	—	100	92.0	7.4	0.6	—	—
Medicine Hat.....	—	100	55.3	30.3	11.8	—	2.6
Lethbridge.....	—	100	—	—	—	—	—
Vancouver.....	—	100	81.2	18.8	—	—	—
Churchill.....	—	100	—	—	—	—	—
Totals.....	—	100	42.7	26.6	1.7	3.1	25.9
		Percentage of Total Inspections					
	%	%	%	%	%	%	%
Winnipeg.....	100	7.0	2.9	2.0	0.1	0.2	1.9
Calgary.....	100	9.4	3.7	2.8	0.2	0.4	2.3
Edmonton.....	100	14.9	6.4	3.4	0.1	0.7	4.3
Saskatoon.....	100	4.4	4.0	0.4	—	—	—
Moose Jaw.....	100	7.9	7.3	0.6	—	—	—
Medicine Hat.....	100	4.2	2.3	1.3	0.5	—	0.1
Lethbridge.....	100	—	—	—	—	—	—
Vancouver.....	100	2.7	2.2	0.5	—	—	—
Churchill.....	100	—	—	—	—	—	—
Totals.....	100	8.1	3.5	2.2	0.1	0.3	2.1

TRADE AND COMMERCE

Table E-7.—Summary of Carlot Inspections Appealed, Crop Year 1956-57

Item	Winnipeg		Edmonton		Calgary		Total	
	Cars	Percent	Cars	Percent	Cars	Percent	Cars	Percent
Left as graded.....	684	93.8	220	77.7	598	85.9	1,502	87.9
Grades Raised.....	45	6.2	62	21.9	96	13.8	203	11.9
Grades Lowered.....	—	—	1	0.4	2	0.3	3	0.2
Totals.....	729	100.0	283	100.0	696	100.0	1,708	100.0
Total Cars Inspected.....							298,635	100.00
Total Appeals.....							1,708	0.57
Total Grades Changed.....							206	0.07

Table E-8.—Vessel Shipments Inspected, Crop Year 1956-57

Grain	Fort William and Port Arthur	Vancouver	Victoria	Prince Rupert	Churchill	Total
	bu.	bu.	bu.	bu.	bu.	bu.
Wheat.....	171,357,190	102,882,125	1,199,669	492,883	16,250,319	292,182,186
Oats.....	47,728,441	527,895	—	—	101,200	48,357,536
Barley.....	72,481,270	22,556,631	—	8,157,986	—	103,195,887
Rye.....	5,872,794	—	—	—	—	5,872,794
Flaxseed.....	13,689,845	2,438,195	711,590	—	—	16,839,630
Buckwheat.....	162,717	—	—	—	—	162,717
*Sample Grain.....	219,328	—	—	—	—	219,328
*Screenings.....	4,189,426	—	—	424	110,800	4,300,650
*Canada Rapeseed.....	—	1,340,220	1,051,947	—	—	2,392,167
*Mustard Seed.....	—	1,111,665	—	—	—	1,111,665
*U.S.A. Mustard Seed.....	—	66,907	—	—	—	66,907
Totals.....	315,701,011	130,923,638	2,963,206	8,651,293	16,462,319	474,701,467

*In bushels of 50 pounds.

Table E-9.—Carlot Shipments ex Terminal Elevators Inspected, Crop Year 1956-57

Grain	Winnipeg	Fort William and Port Arthur	Calgary	Edmonton	Moose Jaw
Number of Carlots					
Wheat.....	644	1,980	566	230	1,087
Oats.....	271	2,124	25	120	121
Barley.....	321	1,303	729	35	49
Flaxseed.....	56	4,051	165	206	24
Rye.....	1	440	16	—	1
Mixed Grain.....	87	—	27	2	4
Corn.....	10	—	—	—	—
Buckwheat.....	3	4	—	—	—
Peas.....	71	—	—	—	—
Rapeseed.....	4	110	98	397	—
Screenings.....	356	5,240	238	140	110
Sample Grain.....	—	254	—	—	—
Totals.....	1,824	15,506	1,864	1,130	1,396

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Table E-9.—Carlot Shipments ex Terminal Elevators Inspected, Crop Year 1956-57—Cont'd

Grain	Saskatoon	Lethbridge	Medicine Hat	Vancouver, Victoria and Prince Rupert	Churchill
Wheat.....	1,632	542	13	549	—
Oats.....	128	—	9	339	—
Barley.....	29	—	—	214	—
Flaxseed.....	15	19	171	8	—
Rye.....	—	—	—	1	—
Mixed Grain.....	—	1	—	18	—
Corn.....	—	—	—	—	—
Buckwheat.....	—	—	—	—	—
Peas.....	—	—	—	—	—
Rapeseed.....	827	—	—	4	—
Mustard Seed.....	—	1	—	—	—
Screenings.....	689	1	3	1,663	8
Totals.....	3,320	564	196	2,796	8

EASTERN DIVISION

Table E-10.—Carlot Inspections Eastern Grain, Crop Year 1956-57, by Grains and Points

Grain	Montreal	Toronto	Chatham	Total
	Carlots			
Wheat.....	—	453	3,320	3,773
Oats.....	—	—	—	—
Barley.....	—	9	159	168
Rye.....	—	—	30	30
Buckwheat.....	1	—	17	18
Corn.....	1	4	1,870	1,875
Beans.....	—	—	259	259
Soybeans.....	—	338	1,680	2,018
Flaxseed.....	—	2	—	2
Totals.....	2	806	7,335	8,143

Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1956-57, by Grains, Grades and Points

Grade	Montreal	Toronto	Chatham	Total
		Carlots		
WHEAT				
1 Canada Eastern White Winter.....	—	25	555	580
2 Canada Eastern White Winter.....	—	123	988	1,111
3 Canada Eastern White Winter.....	—	12	149	161
4 Canada Eastern White Winter.....	—	—	14	14
5 Canada Eastern White Winter.....	—	—	9	9
1 Canada Eastern Mixed Winter.....	—	—	143	143
2 Canada Eastern Mixed Winter.....	—	—	146	146
3 Canada Eastern Mixed Winter.....	—	—	19	19
6 Canada Eastern Winter.....	—	8	15	23
Tough.....	—	272	1,179	1,451
Smutty.....	—	—	2	2
Weevilly.....	—	—	15	15
Infested.....	—	—	12	12
Damp.....	—	5	30	35
Sample.....	—	7	42	49
Condemned.....	—	1	2	3
Totals, Wheat.....	—	453	3,320	3,773

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Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1956-57, by Grains, Grades and Points—Continued

Grade	Montreal	Toronto	Chatham	Total
		Carlots		
BARLEY				
2 Canada Eastern Six Row.....	—	—	1	1
3 Canada Eastern Six Row.....	—	—	10	10
4 Canada Eastern.....	—	1	82	83
5 Canada Eastern.....	—	1	6	7
6 Canada Eastern.....	—	—	1	1
Tough.....	—	2	55	57
Damp.....	—	1	3	4
Sample.....	—	4	1	5
Totals, Barley.....	—	9	159	168
RYE				
2 Canada Eastern.....	—	—	15	15
4 Canada Eastern.....	—	—	1	1
Tough.....	—	—	11	11
Damp.....	—	—	2	2
Sample.....	—	—	1	1
Totals, Rye.....	—	—	30	30
BUCKWHEAT				
2 Canada Eastern.....	—	—	1	1
Tough.....	—	—	6	6
Damp.....	1	—	10	11
Totals, Buckwheat.....	1	—	17	18
CORN				
Extra Dry 1 Canada Eastern Yellow.....	—	—	50	50
1 Canada Eastern Yellow.....	—	—	489	489
Extra Dry 2 Canada Eastern Yellow.....	—	—	95	95
2 Canada Eastern Yellow.....	1	—	339	340
Extra Dry 3 Canada Eastern Yellow.....	—	—	122	122
3 Canada Eastern Yellow.....	—	—	167	167
Extra Dry 4 Canada Eastern Yellow.....	—	—	51	51
4 Canada Eastern Yellow.....	—	—	38	38
Extra Dry 5 Canada Eastern Yellow.....	—	—	3	3
5 Canada Eastern Yellow.....	—	1	2	3
Tough.....	—	—	240	240
Damp.....	—	—	184	184
Moist.....	—	—	80	80
Wet.....	—	—	9	9
Sample.....	—	3	1	4
Totals, Corn.....	1	4	1,870	1,875

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**Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1956-57, by Grains,
Grades and Points—Concluded**

Grade	Montreal	Toronto	Chatham	Total
		Carlots		
BEANS				
1 Canada Eastern Pea.....	—	—	71	71
2 Canada Eastern Pea.....	—	—	105	105
3 Canada Eastern Pea.....	—	—	12	12
4 Canada Eastern Pea.....	—	—	1	1
Tough.....	—	—	69	69
Damp.....	—	—	1	1
Totals, Beans.....	—	—	259	259

SOYBEANS				
1 Canada Yellow.....	—	83	751	834
2 Canada Yellow.....	—	233	378	611
3 Canada Yellow.....	—	6	166	172
4 Canada Yellow.....	—	1	118	119
5 Canada Yellow.....	—	—	29	29
Tough.....	—	15	213	228
Damp.....	—	—	20	20
Moist.....	—	—	2	2
Sample.....	—	—	3	3
Totals, Soybeans.....	—	338	1,680	2,018

FLAXSEED				
Tough.....	—	2	—	2
Totals, Flaxseed.....	—	2	—	2
Totals, All Grains.....	2	806	7,335	8,143

Table E-12.—Cargo Inspections Eastern Grain, Crop Year 1956-57

Grain	St. John and Halifax	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.	bu.
Wheat.....	—	—	—	852,112	852,112
Corn.....	—	—	—	1,326,621	1,326,621
Soybeans.....	127,224	210,400	337,471	1,309,597	1,984,692
Totals.....	127,224	210,400	337,471	3,488,330	4,163,425

Table E-12A.—Cargo Inspections, Western Grain, Crop Year 1956-57

Grain	St. John and Halifax	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.	bu.
Flaxseed.....	7,401,543	618,898	—	—	8,020,441
Rapeseed.....	—	11,146	—	—	11,146
Totals.....	7,401,543	630,044	—	—	8,031,587

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Table E-13.—Inspections, Eastern Grain in Bins or Warehouses, Crop Year 1956-57

Grain	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.
Oats.....	7,087	—	—	7,087
Buckwheat.....	12,537	—	—	12,537
Beans.....	—	—	152,474	152,474
Totals.....	19,624	—	152,474	172,098

Table E-14.—Inward and Export Cargoes Sampled and Grade Checked, Crop Year 1956-57

	Montreal	Sorel	Three Rivers	Quebec	Halifax and St. John	Total
	bu.	bu.	bu.	bu.	bu.	bu.
EASTERN GRAIN						
Inward.....	1,889,681	—	—	—	—	1,889,681
Export.....	1,328,806	—	—	—	342,607	1,671,413
WESTERN GRAIN						
Inward.....	77,881,954	112,707	—	—	—	77,994,661
Export.....	85,200,540	13,136,257	11,601,522	10,685,864	21,517,667	142,141,850
U.S. GRAIN						
Inward.....	2,248,527	—	—	—	—	2,248,527
Export.....	1,272,832	—	—	—	—	1,272,832
Totals.....	169,822,340	13,248,964	11,601,522	10,685,864	21,860,274	227,218,964

Table E-15.—Grain Sampled but not Inspected, Crop Year 1956-57

	Montreal	Toronto and Chatham	Sorel, Three Rivers and Quebec	Halifax and St. John	Total
EASTERN GRAIN					
Carlots.....	22	12	—	—	34
Inward Cargoes.....(bu.)	82,330	—	—	—	82,330
Outward Cargoes.....(bu.)	156,239	—	—	—	156,239
Bin Lots.....(bu.)	484,539	—	—	—	484,539
WESTERN GRAIN					
Carlots.....	57	9	—	—	66
Inward Cargoes.....(bu.)	310,041	—	5,722	—	315,763
Outward Cargoes.....(bu.)	2,998,835	—	1,053,733	966,027	5,018,595
Bin Lots.....(bu.)	145,273	333,960	88,882	—	568,115
U.S.A. GRAIN					
Carlots.....	49	—	—	—	49
Inward Cargoes.....(bu.)	1,554,245	—	—	—	1,554,245
Bin Lots.....(bu.)	412,968	—	95,570	—	508,538
Totals—Cars.....	128	21	—	—	149
—Bushels.....	6,144,470	333,960	1,243,907	966,027	8,688,364

APPENDIX F

Grain Weighing Branch

J. J. MANSON, Chief Grain Weighman

Under the provisions of Sections 33 and 124 of the Canada Grain Act, all grain received at or shipped from licensed terminal elevators is weighed under the supervision of the Board's weighing staffs. Weighing services are also provided at licensed mill elevators.

During the Crop Year 1956-57, forty-five public, semi-public and private terminal elevators and twenty-eight mill elevators in the Western Division were serviced.

All scales and the equipment for transferring grain to scales on receipt and for shipment in all licensed terminal elevators and serviced mill elevators were regularly inspected during the crop year under the provisions of Section 92 of the Act. In accordance with the special arrangement with the Standards Branch of the Department of Trade and Commerce, all scales in licensed terminal and eastern elevators were inspected, verified and stamped by the Board's Scale Inspector acting as an inspector under the Weights and Measures Act. A semi-annual inspection was also made of all scales at terminal elevators to ascertain if scales were maintaining their accuracy. Special inspections were also made when any doubt arose as to the accuracy of any particular scale.

New installations of dust control and other elevator equipment in terminal and eastern elevators were inspected to ensure that such equipment did not affect the accuracy of the weighing of grain received at or shipped from these elevators.

During the crop year under review, 305,276 carlots of grain were weighed on receipt at terminal and mill elevators in the Western Division and of these car lots, 56,141 or 18.3% were reported leaking and 7,877 or 2.5% were without seals or had defective seals.

This Branch maintained a close checking of reported outturns at eastern elevators of cargoes loaded at Lakehead terminals and investigations were made in cases of reported excessive shortages with a view to assessing the liability in cases where such could be established.

Under provisions of Sections 139 and 140 of the Canada Grain Act, weigh-overs were conducted at thirty terminal elevators and at twenty-one eastern elevators. Results were submitted to the Board's Statistics Branch for comparison with outstanding warehouse receipts and preparation of official statements.

The following tables summarize the grain weighed and other information relating to the work of this Branch.

TRADE AND COMMERCE

Table F-1.—Gross Quantities of All Grains Weighed at Terminal Elevators in the Western Division during 1956-57 Crop Year

Point	RECEIPTS								Miscellaneous
	Wheat	Oats	Barley	Rye	Flaxseed	Canadian Corn	Canadian Buckwheat	Canadian Peas	
	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lbs.
Fort William-Port Arthur									
Vancouver-New Westminster	201,127,804	50,906,446	80,389,194	6,780,120	26,347,739	—	205,070	3,302	91,530,723
Victoria	108,765,472	563,973	22,464,424	—	3,072,573	—	—	—	114,069,539
Prince Rupert	1,506,560	4,249	1,250	—	869,482	—	—	—	52,500,090
Churchill	16,576,265	—	8,215,368	—	—	—	—	—	—
Calgary	512,000	3,013	1,129,476	28,145	344,388	—	—	—	1,214,170
Edmonton	390,240	114,953	63,546	—	357,933	15,070	—	—	47,979,590
Lethbridge	584,015	—	—	—	30,586	—	—	—	—
Moose Jaw	1,203,458	—	1,968	—	3,218	—	—	—	—
Saskatoon	1,466,213	43,344	—	—	16,006	—	—	—	110,658,880
North Transcona	348,946	34,706	62,269	2,231	—	—	—	—	4,460,300
Total Receipts	332,480,973	51,670,684	112,327,495	6,810,496	31,041,925	15,070	205,070	3,302	422,413,292
SHIPMENTS									
Fort William-Port Arthur									
Vancouver-New Westminster	174,244,302	52,930,425	77,104,511	6,737,285	21,774,473	—	166,046	3,302	720,182,204
Victoria	103,982,322	1,778,906	22,969,991	—	2,454,188	—	—	—	275,525,104
Prince Rupert	1,201,035	30,160	1,360	—	711,591	—	—	—	57,924,780
Churchill	37,417	—	8,613,453	—	—	—	—	—	7,354,100
Calgary	16,484,320	101,200	1,221,361	30,691	301,382	—	—	—	6,069,371
Edmonton	879,112	5,889	61,061	—	301,025	—	—	—	13,857,230
Lethbridge	424,112	124,872	—	—	27,930	8,820	—	—	50,657,640
Moose Jaw	1,045,121	—	375	—	3,218	—	—	—	81,520
Saskatoon	798,795	75,505	1,968	—	—	—	—	—	2,838,820
North Transcona	2,020,566	18,851	60,759	2,231	15,913	—	—	—	113,215,820
Total Shipments	301,488,816	55,065,808	110,034,839	6,770,207	25,589,720	8,820	166,046	3,302	1,252,029,889

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Table F-2.—Number of Cars Leaking and Cars with Missing Seals at the Lakehead, at Other Points and at Winnipeg Yards, by Railways, for the Cron Year 1956-57

Destination	Cars Leaking		Missing Seals	
	C.N.R.	C.P.R.	C.N.R.	C.P.R.
Lakehead Elevators and Yards.....	20,623	20,670	1,971	3,188
Other Points.....	6,852	7,996	1,370	1,348
Totals.....	27,475	28,666	3,341	4,536
Totals, both Railways.....	56,141		7,877	
Winnipeg Yards.....	1,191	1,613	858	980

Table F-3.—Number of Cars Weighed at all Points and Percentage of such Cars found Leaking or with Defective Seals, Cron Years 1955-56 and 1956-57

	Number		Percentage of Total	
	1956-57	1955-56	1956-57	1955-56
Cars Weighed In.....	305,276	293,489	100.0	100.0
Inward Cars Leaking.....	56,141	54,349	18.3	18.5
Inward Cars with Missing or Defective Seals.....	7,877	6,923	2.5	2.4
Cars Weighed Out.....	30,171	32,615	—	—

Table F-4.—Average Reported Outturn Shortages on Vessel Shipments of Grain from Fort William-Port Arthur to Canadian and United States Ports during the 1956-57 Cron Year.

Grain	Bushels Shipped	Shortage in Pounds per 1,000 Bushels	
		1956-57	1955-56
CANADIAN PORTS			
Wheat.....	148,497,650	31.1	28.4
Durum Wheat.....	16,817,014	15.4	35.9
Oats.....	37,164,830	21.1	19.1
Barley.....	51,412,138	28.7	30.3
Rye.....	1,589,056	46.9	42.4
Flaxseed.....	13,557,206	21.3	29.3
Buckwheat.....	121,313	51.1	44.1
Mixed Grain (in lbs.).....	3,259,154	.4 lbs.	—
Sample Grain (in lbs.).....	8,680,897	per 1,000 lbs. .8 lbs.	1.1 lbs.
Screenings (in tons).....	54,553	per 1,000 lbs. 1.1 lbs. per ton	per 1,000 lbs. 1.7 lbs. per ton
UNITED STATES PORTS			
Wheat.....	5,442,247	63.7	53.3
Durum Wheat.....	—	—	—
Oats.....	10,480,376	53.1	17.2
Barley.....	21,363,155	43.6	43.7
Rye.....	4,300,526	36.1	5.6
Flaxseed.....	28,231	124.0	—
Buckwheat.....	41,404	111.2	—
Sample Grain (in lbs.).....	—	—	1.3 lbs.
Screenings (in tons).....	50,183	—	per 1,000 lbs. —
TOTAL CANADIAN AND UNITED STATES PORTS			
Wheat.....	153,939,897	32.3	29.3
Durum Wheat.....	16,817,014	15.4	35.9
Oats.....	47,645,206	28.2	19.0
Barley.....	72,775,293	33.1	35.2
Rye.....	5,889,582	39.0	31.5
Flaxseed.....	13,585,437	21.6	29.3
Buckwheat.....	162,717	64.7	44.1
Mixed Grain (in lbs.).....	3,259,154	.4 lbs.	—
Sample Grain (in lbs.).....	8,680,897	per 1,000 lbs. .8 lbs.	1.1 lbs.
Screenings (in tons).....	104,736	per 1,000 lbs. .5 lbs. per ton	per 1,000 lbs. .9 lbs. per ton

APPENDIX G

Statistics Branch

E. E. BAXTER, Chief Statistician

The Statistics Branch receives regular reports from all elevators licensed under the Canada Grain Act and from these returns compiles and publishes basic statistics relating to the storage and handling of grain within the Canadian elevator system. It prepares audit statements of the operations of all terminal and eastern elevators, verifies the insurance carried on grain stocks, supplies for review by the Board a detailed analysis of country and terminal grain handlings and co-operates with other Board offices in the maintenance of detailed records of principal operations.

The general statistical bulletins released by this office were continued with only normal adjustments in form during 1956-57. A further expansion in the demand for the weekly "Canadian Grain Position" bulletin indicated the increasing use of this current reference document within the grain trade and related fields. The wider adaption of all grain statistics was also reflected in additional requests for special studies and reports. The Branch's machine accounting unit was adjusted and expanded during the year to meet the needs for further records and statistics in connection with terminal and country elevator records, vessel shipping studies and special scientific analyses carried out by the Board's Grain Research Laboratory. Particular extensions were made in those control records related to terminal and country elevator weighovers.

Following representations from certain trade organizations an investigation was initiated regarding the advisability of changing the unit of grain measurement from the bushel to the hundredweight. A report covering the basic proposition and initial findings was presented to the Department in May and further study is being carried out.

The facilities and procedures of the office were made available for examination by representatives of foreign nations studying Board operations under the Colombo Plan.

The responsibilities of the office under provisions of the Inland Water Freight Rates Act were met by the examination of vessel charter confirmations covering all lake grain cargoes shipped from Fort William-Port Arthur during the 1957 season. These records covered a total vessel movement from Fort William-Port Arthur elevators of 278.6 million bushels of the five principal grains in 1,072 separate cargoes from the opening of the 1957 season of navigation on April 10 to its closing on December 14, 1957.

The records and statements prepared in connection with the grain audits of terminal and eastern elevators under Sections 139 and 140 of the Canada Grain Act have been expanded to provide additional details for Board analysis. Study was made of records procedures necessary to meet proposed changes in screenings dust disposal at terminals.

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Detailed records of Canadian grain prices have been maintained as required under Section 21 of the Canada Grain Act and, in pursuance of Section 102, storage value reports and grain insurance documents have been examined to ensure adequate protection to the owners of grain held in licensed elevators.

Annual stock and handling returns from 5,360 country elevators covering 1956-57 operations were examined and tabulated as a basis for statistical records and special analytical reports for Board review. The reporting procedure with respect to country elevator weighups instituted late in 1955-56 was further developed to facilitate the administrative work of the Executive Branch and the Assistant Commissioners.

Summary grain statistics with respect to the 1956-57 crop year and the 1957 season of navigation are presented in table form below. Complete details are published in the Branch's annual export publication—"Canadian Grain Exports 1956-57" and in the "Grain Trade of Canada" released jointly by this office and the Agriculture Division of the Dominion Bureau of Statistics.

Table G-1.—Supply and Disposition of Canadian Grain, Crop Year 1956-57

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
SUPPLY					
Carry-over July 31, 1956.....	579,573,811	119,105,841	110,947,935	15,313,037	2,507,471
Production in 1956.....	573,062,000	524,445,000	269,065,000	8,584,000	34,463,000
Total Supply.....	1,152,635,811	643,550,841	380,012,935	23,897,037	36,970,471
DISPOSITION					
Exported Overseas.....	256,884,039	1,065,973	55,318,712	1,094,209	21,582,468
Exported to U.S.A.....	5,871,501	17,615,326	21,562,199	4,353,311	—
Consumed in Canada*.....	160,677,838	398,799,416	160,400,136	4,289,281	7,807,435
Total Disposition*.....	423,433,378	417,480,715	237,281,047	9,736,801	29,389,903
CARRY-OVER (July 31, 1957)					
On Farms (estimated).....	319,160,000	172,100,000	80,980,000	10,640,000	1,520,000
In Country, Private Terminal and Mill Elevators.....	242,003,946	41,860,937	39,095,328	1,521,342	1,704,862
In Public and Semi-Public Terminal Elevators.....	75,878,162	5,008,836	15,216,469	1,100,752	2,666,281
In Store at and Afloat to Eastern Elevators.....	73,269,834	4,728,890	5,433,604	424,075	853,402
In Eastern Flour Mills.....	2,340,000	168,000	75,000	1,000	—
In Transit by Rail—Eastern and Western Divisions.....	16,339,432	2,098,932	1,845,250	455,067	836,020
In Store and in Transit to the United States.....	211,059	104,531	86,235	18,000	—
Total in Store July 31, 1957*	729,202,433	226,070,126	142,731,886	14,160,236	7,580,565

*Subject to revision.

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**Table G-2.—Production and Producers' Marketings in Western Canada,
by Provinces, Crop Year 1956-57**

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
PRODUCTION (DBS estimate)					
Manitoba.....	56,000,000	92,000,000	42,000,000	1,100,000	8,000,000
Saskatchewan.....	355,000,000	165,000,000	99,000,000	4,100,000	19,000,000
Alberta and British Columbia.....	141,175,000	147,460,000	123,147,000	1,338,000	7,236,000
Totals.....	552,175,000	404,460,000	264,147,000	6,538,000	34,236,000
PRODUCERS' MARKETINGS					
(a) At Country Elevators					
Manitoba.....	39,147,481	21,657,694	24,168,542	619,392	6,544,145
Saskatchewan.....	220,759,115	27,034,752	53,058,039	2,283,722	15,855,980
Alberta.....	98,132,888	19,706,228	42,904,639	1,106,547	5,619,413
Totals.....	358,039,484	68,398,674	120,131,220	4,009,661	28,019,538
(b) At Public and Semi-Public Terminals					
Manitoba.....	8,621	19,857	17,372	—	—
Saskatchewan.....	—	—	—	—	—
Alberta.....	542,283	107,691	42,102	—	2,739
Totals.....	550,904	127,548	59,474	—	2,739
(c) At Interior Private and Mill Elevators					
Manitoba.....	245,569	55,075	45,991	2,146	260,177
Saskatchewan.....	1,845,595	235,100	212,441	1,807	169,897
Alberta.....	1,660,173	395,322	135,628	37,276	510,848
Totals.....	3,751,337	685,497	394,060	41,229	940,922
(d) Loaded over Platforms					
Manitoba.....	3,429	21,881	1,702	—	1,765
Saskatchewan.....	52,769	—	8,837	1,600	15,262
Alberta.....	56,041	20,740	65,823	10,800	32,420
Totals.....	112,239	42,621	76,362	12,400	49,447
Total Producers' Marketings					
Manitoba.....	39,405,100	21,754,507	24,233,607	621,538	6,806,087
Saskatchewan.....	222,657,479	27,269,852	53,279,317	2,287,129	16,041,139
Alberta.....	100,391,385	20,229,981	43,148,192	1,154,623	6,165,420
Totals.....	362,453,964	69,254,340	120,661,116	4,063,290	29,012,646

BOARD OF GRAIN COMMISSIONERS

Table G-3.—Receipts and Shipments of Canadian Grain at Terminal Elevators, Crop Year 1956-57

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Fort William-Port Arthur—					
Receipts.....	195,262,256	49,603,513	77,675,031	5,888,463	22,570,376
Shipments.....	173,912,620	52,473,080	75,822,174	6,019,663	21,377,931
Vancouver-New Westminster—					
Receipts.....	105,689,077	523,674	22,162,647	—	2,797,724
Shipments.....	103,891,341	1,746,446	22,969,989	—	2,408,095
Victoria—					
Receipts.....	1,463,987	1,838	1,250	—	710,874
Shipments.....	1,201,035	30,160	1,360	—	704,475
Prince Rupert—					
Receipts.....	—	—	8,048,192	—	—
Shipments.....	37,417	—	8,613,453	—	—
Churchill—					
Receipts.....	16,160,117	—	—	—	—
Shipments.....	16,484,320	101,200	—	—	—
Transcona—					
Receipts.....	343,043	34,395	61,822	2,231	16,006
Shipments.....	371,684	18,851	60,759	2,231	15,913
Calgary—					
Receipts.....	506,835	3,013	1,128,183	28,125	300,309
Shipments.....	879,112	5,889	1,221,361	30,691	297,362
Edmonton—					
Receipts.....	385,981	114,649	63,429	—	297,944
Shipments.....	424,112	124,872	61,061	—	297,533
Lethbridge—					
Receipts.....	569,985	—	—	—	27,697
Shipments.....	1,045,121	—	375	—	27,681
Moose Jaw—					
Receipts.....	1,171,686	—	1,967	—	3,218
Shipments.....	798,795	—	1,967	—	3,218
Saskatoon—					
Receipts.....	1,413,976	43,287	—	—	—
Shipments.....	2,020,566	75,504	—	—	—
Total Receipts.....	322,966,943	50,324,369	109,142,521	5,918,819	26,724,148
Total Shipments.....	301,066,123	54,576,002	108,752,499	6,052,585	25,132,208

Table G-4.—Shipments of Foreign Grain from Canadian Elevators into Canadian Consumer Channels, Crop Year 1956-57

From	United States Flaxseed	United States Corn	United States Soybeans	United States Rice	Iran Rice
	bu.	bu.	bu.	bu.	bu.
Eastern Elevators.....	47,040	6,223,301	1,714,801	113,657	48,148
Fort William-Port Arthur.....	—	—	—	—	—
Interior Terminals.....	—	—	—	—	—
Interior Private and Mill Elevators.....	—	1,059,697	—	—	—
Pacific Coast Elevators.....	—	—	—	—	—

TRADE AND COMMERCE

Table G-5.—Primary Receipts and Shipments at Eastern Elevators, Crop Year 1956-57

	Receipts	Shipments
	bu.	bu.
Canadian Grain—		
Wheat.....	170,138,510	153,430,147
Oats.....	38,842,719	39,693,102
Barley.....	48,093,642	48,846,074
Rye.....	1,691,314	2,020,125
Flaxseed.....	21,378,233	21,006,474
Corn.....	2,510,755	2,976,734
Beans.....	2,263,806	2,212,832
Buckwheat.....	298,322	187,965
Peas.....	241,010	240,660
Rapeseed (lbs.).....	82,094,660	81,541,810
Mixed Grain (lbs.).....	282,766	—
Sample Grain (lbs.).....	12,681,790	13,286,145
United States Grain—		
Wheat.....	—	137,384
Flaxseed.....	2,093,279	1,782,760
Corn.....	8,303,155	7,445,183
Soybeans.....	1,806,570	1,714,801
Rice.....	113,657	113,657
Other Foreign Grain—		
Iran Rice.....	48,148	48,148

Table G-6.—Supply and Disposition of Canadian Grain in United States Positions, Crop Year 1956-57

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
SUPPLY					
In Store and in Transit U.S.A.....	770,887	820,675	—	73,723	—
Receipts direct from Canada.....	6,388,557	16,899,182	21,562,199	4,297,588	195,983
Total Supply.....	7,159,444	17,719,857	21,562,199	4,371,311	195,983
DISPOSITION					
Exported.....	480,137	—	—	—	195,983
Returned to Canada.....	729,054	—	—	—	—
Used Domestically.....	5,871,501	17,615,326	21,562,199	4,353,311	—
Total Disposition.....	7,080,692	17,615,326	21,562,199	4,353,311	195,983
In Store and in Transit, July 31, 1957	78,752	104,531	—	18,000	—

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Table G-7.—Exports of Canadian Wheat, by Seaboard Sectors, by Months, Crop Year 1956-57

	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via Fort William- Port Arthur Direct	Via United States Atlantic Ports	United States Imports ¹		Total All Wheat	Wheat Flour ²	Total Wheat and Wheat Flour
						For Domestic Use	Milling in Bond			
1956	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
August.....	10,457,624	9,265,882	6,383,640	—	—	222,657	—	26,329,803	3,434,137	29,763,940
September.....	7,139,734	8,632,846	8,704,023	—	—	86,272	59,490	24,622,365	2,781,128	27,403,493
October.....	8,200,568	11,320,183	1,162,657	—	—	221,947	—	20,905,355	3,359,384	24,264,739
November.....	8,244,519	12,332,770	—	—	—	874,536	—	21,451,825	3,196,380	24,648,205
December.....	9,478,220	7,070,050	—	—	480,137	763,141	70,971	17,862,519	2,907,296	20,769,815
1957										
January.....	9,427,980	5,003,423	—	—	—	486,757	—	14,918,160	3,343,186	18,261,346
February.....	8,043,622	3,894,696	—	—	—	114,812	—	12,053,130	2,796,915	14,850,045
March.....	7,888,192	5,846,866	—	—	—	168,321	—	13,903,379	2,776,353	16,679,732
April.....	7,071,193	5,309,207	—	—	—	295,718	—	12,676,118	3,055,258	15,731,376
May.....	9,232,341	10,261,922	—	—	—	371,925	858,381	20,724,769	2,316,619	23,041,388
June.....	8,464,153	13,578,776	—	—	—	734,393	60,676	22,837,998	1,848,816	24,686,814
July.....	10,471,065	9,019,344	—	—	—	416,938	64,366	19,971,713	2,682,934	22,654,647
Total Crop Year 1956-57.....	104,119,211	101,535,965	16,250,320	—	480,137	4,757,417	1,114,084	228,257,134	34,498,406	262,755,540
Total Crop Year 1955-56.....	98,322,316	150,556,005	12,818,845	18,667	227,233	6,676,014	562,395	269,181,475	39,999,990³	309,181,465
5-Year Average 1951-52 to 1955-56.....	99,893,747	136,362,144	10,442,143	96,836	1,624,552	12,751,713	3,439,257	264,610,392	46,894,367	311,504,759

¹Compiled from returns of Canadian elevator licensees and shippers and advice from American grain correspondents.

²Canadian Customs returns converted to bushels—unadjusted for time lag.

³Revised—adjusted to remove effect of time lag in reports made by the Customs.

TRADE AND COMMERCE

Table G-8.—Overseas Exports of Canadian Grain, by Seaboard Sectors, by Grades, Crop Year 1956-57

Grades	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via United States Atlantic Ports	Total
	bu.	bu.	bu.	bu.	bu.
WHEAT—					
1 Manitoba Northern.....	940,088	5,536,629	260,618	—	6,737,335
2 Manitoba Northern.....	30,800,376	37,102,679	13,532,788	—	81,435,843
3 Manitoba Northern.....	36,894,595	22,742,185	1,700,533	480,137	61,817,450
4 Manitoba Northern.....	7,472,471	4,872,057	264,165	—	12,608,693
No. 5.....	24,047,231	12,309,496	65,399	—	36,422,126
No. 6.....	1,466,070	26,966	—	—	1,493,036
2 C.W. Garnet.....	—	1,991	—	—	1,991
3 C.W. Garnet.....	259,840	—	—	—	259,840
1 Alberta Red Winter.....	222,477	—	—	—	222,477
2 Alberta Winter.....	777,925	—	—	—	777,925
3 Alberta Winter.....	234,845	—	—	—	234,845
Other Western.....	1,003,293	6,371,546	426,817	—	7,801,656
Eastern.....	—	508,413	—	—	508,413
2 C.W. Amber Durum.....	—	848,381	—	—	848,381
3 C.W. Amber Durum.....	—	1,895,694	—	—	1,895,694
Extra 4 C.W. Amber Durum.....	—	3,096,383	—	—	3,096,383
4 C.W. Amber Durum.....	—	6,083,020	—	—	6,083,020
Other Durum.....	—	140,525	—	—	140,525
Totals.....	104,119,211	101,535,965	16,250,320	480,137	222,385,633
OATS—					
2 C.W.....	883	—	—	—	883
Extra 3 C.W.....	—	16,487	—	—	16,487
3 C.W.....	7,059	164,733	—	—	171,792
Extra 1 Feed.....	5,294	—	—	—	5,294
1 Feed.....	34,706	12,035	—	—	46,741
Mixed Feed.....	479,953	—	—	—	479,953
Eastern.....	—	3,295	—	—	3,295
Totals.....	527,895	196,550	—	—	724,445
BARLEY—					
3 C.W. Six-Row.....	1,378,875	435,270	—	—	1,814,145
3 C.W. Two-Row.....	9,504,287	1,265,989	—	—	10,770,276
1 Feed.....	14,913,499	1,186,494	—	—	16,099,993
Extra 2 Feed.....	4,189,219	1,406,684	—	—	5,595,903
2 Feed.....	1,184,168	19,753,417	—	—	20,937,585
Other Western.....	—	100,810	—	—	100,810
Totals.....	31,170,048	24,148,664	—	—	55,318,712
RYE—					
2 C.W.....	—	265,538	—	—	265,538
3 C.W.....	—	828,671	—	—	828,671
Totals.....	—	1,094,209	—	—	1,094,209
FLAXSEED—					
1 C.W.....	2,009,010	14,080,045	—	195,983	16,285,038
2 C.W.....	1,141,406	4,156,024	—	—	5,297,430
Totals.....	3,150,416	18,236,069	—	195,983	21,582,468

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Table G-9.—Overseas Exports of Canadian Grain, by Ports, Crop Year 1956-57

Loaded at	Wheat (All varieties)	Oats	Barley	Rye	Flaxseed	Total All Grains
	bu.	bu.	bu.	bu.	bu.	bu.
Vancouver-New Westminster	102,882,125	527,895	22,556,595	—	2,438,825	128,405,440
Victoria	1,199,669	—	—	—	711,591	1,911,260
Prince Rupert	37,417	—	8,613,453	—	—	8,650,870
Montreal	52,869,592	196,550	17,614,733	269,767	10,668,133	81,618,775
Sorel	8,075,293	—	4,895,900	—	165,075	13,136,268
Three Rivers	10,748,034	—	853,520	—	—	11,601,554
Quebec	11,036,301	—	—	—	—	11,036,301
Saint John	1,077,066	—	—	—	35,993	1,113,059
West Saint John	8,862,006	—	784,511	5,946	4,719,318	14,371,781
Halifax	8,867,673	—	—	818,496	2,647,550	12,333,719
Churchill	16,250,320	—	—	—	—	16,250,320
Totals—Canadian Ports	221,905,496	724,445	55,318,712	1,094,209	21,386,485	300,429,347
Baltimore	480,137	—	—	—	—	480,137
Boston	—	—	—	—	167,814	167,814
New York	—	—	—	—	28,169	28,169
Totals—U.S.A. Ports	480,137	—	—	—	195,983	676,120
Totals to Overseas	222,385,633	724,445	55,318,712	1,094,209	21,582,468	301,105,467
Wheat Flour ¹	34,498,406	—	—	—	—	34,498,406
Rollod Oats and Oatmeal ¹	—	341,528	—	—	—	341,528
U.S.A. Imports ²	5,871,501	17,615,326	21,562,199	4,353,311	—	49,402,337
Grand Totals	262,755,540	18,681,299	76,880,911	5,447,520	21,582,468	385,347,738

¹Canadian Customs Returns—converted to bushels.

²Compiled from returns of Canadian Elevator licensees and shippers and advice from American grain correspondents.

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Table G-10.—Tough and Damp Grain Dried, by Storage Position, Crop Year 1956-57

	Artificial Drying			Natural Drying	Total
	Tough	Damp	Tough and Damp		
LAKEHEAD	bu.	bu.	bu.	bu.	bu.
Wheat.....	959	10,292	11,251	3,715,320	3,726,571
Durum Wheat.....	—	4,064	4,064	91,325	95,389
Oats.....	—	1,992	1,992	349,916	351,908
Barley.....	—	1,945	1,945	1,379,403	1,381,348
Rye.....	391	—	391	106,663	107,054
Flaxseed.....	—	6,806	6,806	120,090	126,896
Totals.....	1,350	25,099	26,449	5,762,717	5,789,166
PACIFIC COAST					
Wheat.....	216,239	—	216,239	4,426,298	4,642,537
Oats.....	—	—	—	14,397	14,397
Barley.....	415,783	—	415,783	1,872,577	2,288,360
Rye.....	—	—	—	—	—
Flaxseed.....	—	—	—	41,911	41,911
Totals.....	632,022	—	632,022	6,355,183	6,987,205
INTERIOR					
Wheat.....	—	82	82	70,491	70,573
Flaxseed.....	10,617	1,843	12,460	—	12,460
Totals.....	10,617	1,925	12,542	70,491	83,033
CHURCHILL					
Wheat.....	—	—	—	13,898	13,898
Totals, All Positions.....	643,989	27,024	671,013	12,202,289	12,873,302

Table G-11.—Weighted Average Lake Freight Rates on Canadian Grain from Fort William-Port Arthur, Season of Navigation, 1957

Port of Discharge	Wheat	Oats	Barley	Rye	Flaxseed
(cents per bushel)					
Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	5.530	5.0	5.25	5.5	—
Port Colborne.....	7.552	6.75	7.25	7.5	—
Toronto.....	8.0	7.25	7.5	—	8.515
Kingston.....	9.556	8.0	8.25	—	—
Prescott.....	9.0	8.25	8.5	9.0	—
Montreal (Direct).....	16.0	13.0	15.25	16.0	17.0
Montreal via Bay Ports.....	16.0	13.0	15.25	—	—
Montreal via Port Colborne.....	16.0	13.0	15.25	16.0	17.0
Montreal via Toronto.....	16.0	—	15.25	16.0	17.0
Montreal via Kingston.....	16.0	13.0	15.25	16.0	17.0
Montreal via Prescott.....	16.0	13.0	15.25	16.0	17.0
Sorel (Direct).....	16.0	13.0	15.25	—	—
Sorel via Bay Ports.....	16.0	13.0	15.25	—	—
Sorel via Port Colborne.....	16.0	13.0	15.25	—	17.0
Sorel via Prescott.....	16.0	13.0	15.25	—	17.0
Three Rivers (Direct).....	16.0	—	—	—	—
Three Rivers via Bay Ports.....	16.0	—	—	—	—
Three Rivers via Port Colborne.....	16.0	—	—	—	—
Three Rivers via Toronto.....	16.0	—	—	—	—
Three Rivers via Kingston.....	16.0	—	—	—	—
Quebec (Direct).....	16.0	13.0	15.25	16.0	—
Quebec via Port Colborne.....	—	13.0	15.25	—	—
Quebec via Prescott.....	16.0	13.0	15.25	—	—
Buffalo.....	8.072	6.881	7.621	7.998	—
Chicago.....	8.377	6.689	7.5	7.955	—
Detroit.....	—	—	8.622	—	—
Duluth-Superior.....	6.0	—	5.5	—	—
Huron.....	9.0	6.331	—	—	—
Manitowoc.....	—	—	7.556	—	—
Milwaukee.....	—	6.5	7.538	—	—
Toledo.....	—	5.870	—	—	—

Note.—Rates originally quoted in United States Funds have been converted to Canadian currency at the prevailing rates of exchange.

Table G-12.—Overages and Shortages Disclosed by Weighovers of Grain Stored in PUBLIC TERMINAL ELEVATORS, Crop Year 1956-57

NOTE:—The figures shown in this table represent differences between outstanding registered warehouse receipts and quantities of grain disclosed at weighover.

Date of Weigh-over	Licensee	Wheat		Oats		Mixed Feed Oats		Barley		Rye		Flaxseed		Canadian Corn		U.S.A. Corn		Rapeseed		Mixed, and Sample Grain	
		Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lbs.	lbs.	lbs.	lbs.
1957	CANADIAN GOVERNMENT ELEVATORS																				
June 17-28	Calgary, Alta.....	—	2,038.3	—	46.4	—	—	262.6	—	28.0	—	134.5	—	—	—	—	—	—	—	—	—
May 17	Edmonton, Alta.....	—	8,783.3	792.5	—	100.0	—	1,059.7	—	—	—	857.7	—	—	35.0	—	34.0	—	—	—	—
May 10-6	Lethbridge, Alta.....	951.9	—	—	—	105.6	—	—	113.7	—	—	19.1	—	—	—	—	—	—	—	—	—
June 10-5	Saskatoon, Sask.....	1,419.5	—	—	—	22,402.9	—	422.9	—	—	—	—	41.2	—	—	—	—	840	—	—	—
	Totals.....	2,371.4	10,821.6	792.5	46.4	22,603.5	—	1,755.2	113.7	23.0	—	1,011.3	41.2	35.0	—	34.0	—	840	—	—	—
	Net Totals—Overages.....	—	—	746.1	—	22,603.5	—	1,641.5	—	23.0	—	970.1	—	—	—	—	—	—	—	—	—
	Shortages.....	8,450.2	—	—	—	—	—	—	—	—	—	—	—	35.0	34.0	—	840	—	—	—	—

Table G-13.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in PUBLIC TERMINAL Elevators, Crop Year 1956-57

Date of Weighover	Licensee	EXCESS			DEFICIENCY					
		1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
1957	CANADIAN GOVERNMENT ELEVATORS									
June 17-28	Calgary, Alta.....	—	—	—	—	—	—	85.8	1,465.3	750.3
May 13-17	Edmonton, Alta.....	—	—	—	—	—	—	—	58.2	6,300.1
May 6-10	Lethbridge, Alta.....	—	—	—	788.3	—	—	20.2	308.5	—
June 10-July 5	Saskatoon, Sask.....	—	—	23,482.8	—	—	—	22.3	—	30,888.6

Table G-14.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC TERMINAL Elevators, Crop Year 1956-57

Date of Weighover	Licensee	EXCESS					DEFICIENCY						
		1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
	FORT WILLIAM-PORT ARTHUR												
Dec. 17-20, 1956.....	Canadian Consolidated Grain Co. Ltd. Empire.....	—	—	—	—	—	—	—	—	1,488.9	39.1	—	—
Jan. 8-18, 1957.....	Eastern Terminal Elevator Co. Ltd.....	—	—	12,293.3	—	—	—	13,723.9	—	—	24,273.6	—	—
Dec. 14-18, 1956.....	Fort William Elevator Co. Ltd. Elevator "E".....	—	—	—	—	—	—	—	—	—	—	—	—
Aug. 7-9, 1956.....	Manitoba Pool Elevators	—	—	—	—	—	—	—	4.8	843.3	675.9	—	—
Aug. 10-15, 1956.....	Elevator No. 1.....	—	—	—	—	—	—	174.9	—	1,704.8	762.3	—	—
Aug. 16-24, 1956.....	Elevator No. 2.....	—	—	—	—	—	—	124.6	—	2,610.9	1,409.4	—	—
	Elevator No. 9.....	—	—	—	—	—	—	—	—	—	—	—	—
Dec. 13-17, 1956.....	McCabe Grain Co. Ltd.....	—	—	—	—	—	—	284.7	—	1,719.9	4,822.3	18.5	17.6
Dec. 17-26, 1956.....	National Grain Terminal.....	—	—	—	—	—	—	696.5	—	10,629.3	34,739.0	—	—
Dec. 11-17, 1956.....	Ogilvie Flour Mills Co. Ltd.....	—	—	—	—	—	—	210.3	—	3,057.1	106.8	—	—
Dec. 26, 1956- Jan. 4, 1957.....	Saskatchewan Wheat Pool Elevator No. 7.....	—	—	—	—	—	—	2,513.6	—	45,925.8	37,063.3	—	3.7
Dec. 12-22, 1956.....	Searle Grain Co. Ltd.....	—	—	—	—	—	—	660.4	—	10,890.6	18,742.7	—	3.7
July 15-18, 1957.....	Superior Elevator Co. Ltd.....	—	—	2,565.5	—	—	—	36.1	—	—	5,154.2	—	—
Jan. 9 Feb. 15, 1957.....	Westland Elevators Ltd.....	—	—	—	—	—	—	5,997.7	—	101,268.4	41,679.1	—	3.7

BOARD OF GRAIN COMMISSIONERS

Table G-14. —Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC TERMINAL Elevators, Crop Year 1956-57—Concluded

Date of Weighover	Licensee	EXCESS					DEFICIENCY						
		1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
	VANCOUVER-NEW WESTMINSTER												
Jan. 12-19, 1957.....	Alberta Wheat Pool.....	—	—	—	—	—	—	—	1.0	15,528.0	26,826.3	—	10.2
May 3-10, 1957.....	Burrard Terminals Ltd.....	—	31.2	—	—	—	—	—	—	6,342.7	7,346.4	—	—
Sept. 7-12, 1956.....	Cargill Grain Co. Ltd.....	—	—	8,136.5	1,706.4	—	—	—	12,314.2	—	—	—	—
Jan. 11-18, 1957.....	Pacific Elevators Ltd. Elevator No. 1.....	—	—	—	—	—	—	—	3,630.3	62,529.5	49,475.5	—	452.5
Aug. 13-16, 1956.....	James Richardson & Sons Ltd. Elevator No. 4 (N.H.B.).....	—	—	—	—	—	—	—	14.2	210.1	191.6	—	3.7
Oct. 9-15, 1956.....	Searle Grain Co. Ltd.....	—	—	112.4	—	—	—	—	131.5	—	948.8	—	—
	VICTORIA, B.C.												
June 20-25, 1957.....	Victoria Elevator Ltd.....	—	—	—	—	—	—	—	1,439.1	7,700.8	14,108.5	—	—
	PRINCE RUPERT, B.C.												
June 3-11, 1957.....	Canadian Government Elevator.....	—	—	—	—	—	—	—	—	—	—	—	—

TRADE AND COMMERCE

Table G-15.—Excesses and Deficiencies in Specified Grades of Wheat disclosed by Weighovers of Grain Stored in PRIVATE TERMINAL Elevators, Crop Year 1956-57

Grade of Wheat	Excess	Deficiency
	bu.	bu.
1 Hard.....	—	—
1 Northern.....	—	—
2 Northern.....	—	—
3 Northern.....	—	—
1 C.W. Garnet.....	—	—
2 C.W. Garnet.....	—	—

No wheat of the above grades was handled or in store in the following elevators:

Date of Weighover	Elevator Company	Location
July 29th, 1957.....	Canada Malting Co. Ltd.....	Calgary, Alberta
December 27th, 1956.....	Canada Malting Co. Ltd.....	Winnipeg, Manitoba
December 27th, 1956.....	Canada Malting Co. Ltd.....	Port Arthur, Ontario
December 21st, 1956.....	Dominion Malting Co. Ltd....	Transcona, Manitoba
December 21st, 1956.....	National Grain Feed Mill.....	Fort William, Ontario

Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1956-57

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1957			bu.	bu.
Mar. 21-28	COLLINGWOOD Collingwood Terminals Ltd.....	Canada Western Wheat.....	—	5,085.0
		Canada Western Oats.....	—	5,399.1
		Canada Western Barley.....	—	181.1
		Canada Western Rye.....	—	205.6
		Canada Western Peas.....	—	1.9
		Canada Western Screenings.....	*16,421	—
Mar. 12-19	GODERICH Upper Lakes and St. Lawrence Transpor- tation Co. Ltd.....	Canada Western Wheat.....	—	1,504.3
		Canada Western Oats.....	—	3,182.5
		Canada Western Barley.....	—	1,557.4
		Canada Western Screenings.....	—	*35,598
		U.S.A. Corn.....	—	7.8
Jan. 29- Feb. 11	KINGSTON Canada Steamship Lines Ltd.....	Canada Western Wheat.....	—	9,392.5
		Canada Western Oats.....	—	305.9
		Canada Western Barley.....	—	2,523.8
		Canada Western Rye.....	—	699.7
		Canada Western Flaxseed.....	—	1,457.2
		U.S.A. Corn.....	—	406.6
Sept. 27, 1956	LAKEFIELD Lakefield Elevator Co..	Canada Western Wheat.....	—	4,602.8
Mar. 8-27	MIDLAND Canada Steamship Lines Ltd.....	Canada Western Wheat.....	—	4,353.1
		Canada Western Oats.....	—	64.5
		Canada Western Barley.....	—	2.0
		Canada Western Rye.....	—	89.7
Feb. 21- Mar. 7	Canadian National Railways.....	Canada Western Wheat.....	—	15,741.0
		Canada Western Barley.....	—	18.7
		Canada Western Rye.....	—	183.7
Mar. 19-29	Midland-Simcoe Elevator Co. Ltd.....	Canada Western Wheat.....	—	4,869.3
		Canada Western Oats.....	—	579.3
		Canada Western Barley.....	—	597.4

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Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1956-57—Continued

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1957			bu.	bu.
Mar. 28- April 2	Renown Investments Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Rye.....	— — —	1,353.5 67.9 3.0
Mar. 11-15	MONTREAL Dominion Elevator Ltd.	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Corn.....	— — — — — —	2,426.5 1,274.6 869.0 *3,169 *22,398 155.2
Mar. 18- April 5	OWEN SOUND Great Lakes Elevator Co. Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Screenings.....	— — — —	7,451.2 1,924.5 851.3 *33,464
Mar. 11-15	PORT COLBORNE Maple Leaf Milling Co. Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Corn.....	— — — — — — — —	7,096.9 142.3 1,689.3 252.4 18.7 *775 *1,123 22.3
April 1-9	National Harbours Board.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Buckwheat..... U.S.A. Soybeans.....	— — — — — — —	13,182.5 1,325.3 12,605.1 1,297.7 2,117.0 15.6 557.3
April 3-16	PORT McNICOLL Canadian Pacific Railway Co.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley.....	— — —	9,037.5 11.1 196.1
Feb. 26- Mar. 8	PRESCOTT National Harbours Board.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Screenings..... U.S.A. Flaxseed..... U.S.A. Corn.....	2,300.6 1,112.3 — — — — — —	— — 2,724.1 1,109.0 1,970.5 *304 128.0 5,083.8
Feb. 13-22	QUEBEC National Harbours Board.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Sample Grain..... Canada Western Screenings.....	— — — — — —	11,124.2 2,620.3 2,496.2 49.9 *50 *4,350
Feb. 25- Mar. 7	SOREL North American Elevators Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed.....	— — — — —	7,250.7 638.7 4,047.1 511.3 147.7

TRADE AND COMMERCE

Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1956-57—Concluded

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1957			bu.	bu.
Feb. 26- Mar. 15	TORONTO Toronto Elevators Ltd.....	Canada Western Wheat.....	—	6,571.9
		Canada Western Oats.....	—	2,889.8
		Canada Western Barley.....	—	2,936.4
		Canada Western Rye.....	—	95.7
		Canada Western Flaxseed.....	—	2,997.6
		Canada Western Sample Grain.....	—	*4,459
		Canada Western Screenings.....	—	*3,872
		U.S.A. Corn.....	95.7	—
		U.S.A. Soybeans.....	—	951.4
April 1-11	WALKERVILLE Hiram Walker & Sons Grain Corp. Ltd.....	Canada Western Wheat.....	—	3,722.2
		Canada Western Oats.....	—	75.0
		Canada Western Barley.....	—	41.2
		Canada Western Rye.....	—	145.3
		Screenings, Origin Unknown.....	—	*1,361
		U.S.A. Corn.....	—	129.1
April 5-9	ST. JOHN Canadian National Railway Co.....	Canada Western Wheat.....	—	768.1
		Canada Western Flaxseed.....	—	22.5
		Canada Western Soybeans.....	—	11.9
		Canada Western Rapeseed.....	—	*527
April 15-18	WEST ST. JOHN Canadian Pacific Railway Co. Elevator "B".....	Canada Western Wheat.....	—	2,210.0
		Canada Western Barley.....	—	72.5
		Canada Western Flaxseed.....	—	747.4
		Canada Western Screenings.....	—	*980
		Canada Western Peas.....	—	7.1
		Canada Western Rapeseed.....	—	*13,080
April 11-12	Canadian Pacific Railway Co. Elevator "H".....	Canada Western Wheat.....	—	2,144.8
		Canada Western Barley.....	—	433.3
		Canada Western Rye.....	—	3.7
		Canada Western Flaxseed.....	—	1,016.0
		Canada Western Screenings.....	—	*1,734
		Canada Western Peas.....	—	11.5
		Canada Western Rapeseed.....	—	*13,258

*Pounds.

APPENDIX H

The Grain Research Laboratory

J. ANSEL ANDERSON, Chief Chemist

Section 22 of the Canada Grain Act requires that "the Board shall maintain an efficient and adequately equipped laboratory for research work in relation to grain".

The following summary of the Laboratory's work for 1957 deals with the quality of Canadian grain marketed in the 1956-57 crop year, the quality of 1957 crops, research and other activities. In accordance with past practice, a separate annual report will be published by the Laboratory to put on record data on the quality of Canadian grain and progress made in research.

Quality of Grain Marketed in 1956-57

Studies of the qualities of spring wheat, durum wheat, barley, oil seeds, and other cereal grains, at various stages of marketing, were continued throughout the 1956-57 crop year. Although a considerable volume of wheat carried over in country elevators and on farms was moved during the crop year, average quality of grain moved to terminal elevators reflected the characteristics of the 1956 crop; a cool wet season increased bushel weight but kept protein content well below average for the fifth successive year.

Spring wheat marketed in 1956-57 was high in bushel weight and flour yield. Protein content and baking strength were below the long-term averages, but levels for the Northern grades were very similar to those of the previous crop year. Carrying power for weaker wheats was good considering the protein level. The large durum wheat crop was predominantly No. 4 C.W. and the macaroni-making quality of this grade was comparatively good; the new commercial grade, Extra No. 4 C.W., continued to find wide acceptance in European markets. Malting quality of barley was good and similar to that of the previous crop year. The record flax crop was high in oil content and iodine value and was classed as a crop of excellent quality. Western Canada rapeseed became a large enough crop to warrant a comprehensive survey; average oil content was 45%, which represents a high level for this crop.

Estimated Quality of 1957 Crops

The weather at harvest time was not favourable and much grain lost grade in the swath. It is estimated that the bulk of the wheat crop (348 million bushels, including 44 million of durum) will grade Nos. 2, 3 and 4 Northern, with No. 3 Northern as the largest grade. As a result of the relatively dry summer, the 1957 wheat crop has a protein content of 14.1%, and baking strength and carrying power for weaker wheats are excellent. The new crop thus has the high quality long associated with the "Manitobas". Bushel weight is not so high as in recent years, but the Northern grades mill very satisfactorily and give high yields of flour of good color and low ash. Doughs handle very well, and baking absorption and gassing power are both at satisfactory levels.

Despite a 56% increase in seeded acreage, the durum wheat crop is only about 5 million bushels greater than in 1956, and No. 3 C.W. is expected to be the largest grade. The crop will be higher in protein than for several years and bushel weight a little lower. As the top three grades contain only high quality varieties, they again produce macaroni of excellent color; lipoxidase activity is

also low for each of these grades. Extra No. 4 C.W. is expected to be somewhat better in macaroni color this year, and No. 4 C.W. will probably be similar to last year's grade.

The new barley crop is estimated to be 216 million bushels, and over 60% is expected to enter the malting grades. Malting quality is about average, but percentages of plump barley are high in the top grades. In line with the higher nitrogen content, malt extract yields are lower than for last year's samples. Enzymic activity is high for the malting grades this year.

The flax crop is estimated to be 23 million bushels and is below average in grade. Oil content and iodine value are both lower than in 1956, but protein content is higher. The second survey of rapeseed shows that oil content is 41.8% and that protein content is 42.5%; the former is lower and the latter higher than in 1956.

Bulletins and Maps

Preliminary information on the quality of different grades of 1957 crops of spring wheat, durum wheat, barley and oil seeds, was published in two protein maps and four crop bulletins (two on wheat, one on barley, and one on flax and rapeseed). Information contained in these bulletins was also presented at two meetings of the Committee on Western Grain Standards. These publications were sent by the Laboratory to domestic and foreign buyers of Canadian grain, and separate distribution of some of them was made by the Canadian Wheat Board. The bulletin on the quality of the wheat crop was also distributed to Canadian Trade Commissioners throughout the world by the Grain Division, Department of Trade and Commerce, Ottawa. Press releases preceded publication of the maps and bulletins.

The quarterly bulletins on Canadian wheat cargoes, started two years ago, were continued throughout 1957. The four issues were distributed mainly by Canadian Trade Commissioners who received their supplies direct by airmail. With the first quarter of the 1957-58 crop year the Laboratory began a second series of quarterly bulletins that deals with the quality of durum wheat cargoes exported from Canada. Comprehensive quality data for average samples of different grades, and data for moisture content, bushel weight and protein content of individual cargoes, are presented and discussed in much the same way as in the spring wheat cargo bulletins.

Service to the Inspection Branch

The Laboratory continued to work in close co-operation with the Inspection Branch to provide information and service required in settling grading problems. Studies were made of the quality of tentative standard and standard export samples of different grains prepared by the Chief Inspector for approval by the Committee on Western Grain Standards. From time to time special tests of current crops were made to provide information that would assist in grading. For example, scab damage in White Winter Wheat was examined and found to be a great deal more severe than the appearance of the kernels would indicate. Supervision of moisture testing and of equipment in the Board's Inspection offices was continued throughout the year, and C.A.E. electrical moisture meters were installed in 10 of the offices. Increased use is being made of these moisture meters to segregate samples that are well below the maximum for straight grade and need not be tested by the longer Brown-Duvel method. Studies aimed at maintenance of uniformity in protein contents of export cargoes of top grades of wheat have been continued.

Variety Testing

As in previous years, the Laboratory took a major part in studies, sponsored by the Associate Committee on Grain Research, of the quality of spring wheat, durum wheat and malting barley varieties developed by Canadian plant breeders. The 1957 studies showed that some of the new rust-resistant wheat varieties now being developed are promising in quality. Final tests of Traill barley showed that it does not have "fair malting quality" and that it cannot be distinguished in kernel characteristics from the unlicensed variety Kindred which is still being grown on a small acreage in Manitoba. Neither Traill nor Kindred will be graded higher than No. 1 Feed after August 1, 1958. Small-scale prediction tests developed by the Laboratory for durum wheat and malting barley are now being used to advantage in providing plant breeders with preliminary information on the quality of early generation hybrids. Progress in basic research has made it feasible to re-examine the possibility of developing a more comprehensive set of small-scale prediction tests for quality in spring wheats; these studies are being undertaken in co-operation with the Canada Department of Agriculture.

Service to Other Organizations

Laboratory services and technical advice to the Canadian Wheat Board, to the Grain Division of the Department of Trade and Commerce, to Commercial Counsellors and Trade Commissioners in importing countries, and to other government agencies, continue to expand steadily. This work relates mainly to promotion of sales of Canadian wheat. Inquiries relating to the quality of Canadian grains in general, of specific grades, and of individual cargoes, were received from many sources. Considerable time and numerous comparative studies of the qualities of various samples were required to deal adequately with this section of the Laboratory's service work. Visits to foreign countries by members of the Laboratory's staff, mentioned later in this report, also play an important role in dealing with these matters.

Close liaison has continued with the Brewing and Malting Barley Research Institute, Winnipeg, and with the Northwest Crop Improvement Association, Minneapolis. The Laboratory has continued to carry its share of the work of the American Association of Cereal Chemists, and is collaborating with other cereal chemists throughout the world in the formation of an International Association for Cereal Chemistry.

Research

Like other comparable institutions, the Grain Research Laboratory endeavours to maintain a balanced program of short, intermediate and long-term research projects. On the one hand, the short-term projects represent mainly applied research seeking such prompt solutions to immediate practical problems as can be obtained in the light of existing knowledge; on the other hand, the long-term projects represent basic research designed to add to existing knowledge on fundamental biochemical principles relating to quality in various cereal grains.

In applied research on wheat, priority is being given to development of a more effective group of tests for evaluating breadmaking quality. A wide range of laboratory milling tests, baking tests, dough and gluten tests, and analytical procedures has been developed throughout the world. Each importing country tends to use its own procedures and modifications in examining Canadian wheat. The Board's Laboratory must be familiar with all such tests and should be able to reproduce them. At present, a number of the available tests, and certain

modifications of them developed in this Laboratory, are being applied to a wide variety of different types of wheat with the object of re-examining the possibilities for selecting better groups of tests for use in the Laboratory's service studies. The development of suitable laboratory milling procedures continues to present special problems. Moreover, no single baking test is wholly adequate for any given purpose, and the development of a limited battery of baking tests designed to provide required information effectively, is no small task. A number of other types of tests for quality have proved useful and are advocated by various laboratories, but these cannot replace milling and baking. Since the Laboratory is testing new varieties, grade averages, individual samples of cargoes of Canadian wheat, and a wide range of competing wheats, a very comprehensive set of methods is required for routine work.

Applied research on the quality of stored flour is continuing, and a constant check is being kept on the quality of wheat in store in Western Canada.

In basic research on wheat, attention has been focused on the role of flour lipids in relation to the improving action of bromate. Another problem of fundamental importance in dough chemistry is the part played by the sulfhydryl group. The new reagent N-ethylmaleimide holds promise for work on this problem, and a preliminary kinetic investigation of its reaction with cysteine has been completed. Studies are also being made in application of the technique of amperometric titration to the determination of the sulfhydryl group. Active research is continuing in the study of the physical properties of dough in relation to quality.

In barley research, the new malting equipment has been thoroughly tested and is now in operation. This equipment is designed primarily for final testing of the quality of new varieties of barley. It is also being used for investigating certain biochemical changes that occur in producing malt from barley. Previous studies indicated that there is a relation between cytolytic activity and malting quality of Canadian barley varieties, and this work has been extended to include examination of the non-starch polysaccharide (gum) components of barley varieties as these are substrates for cytolytic enzymes. Changes in the polysaccharide components during malting are also being followed. As there are indications that the cytolytic enzyme system is a mixture of several enzymes, studies on the characterization of types of enzyme activity are being made.

Staff and Facilities

The first award of the National Research Council Postdoctorate Fellowship, tenable in the Board's Laboratory, was made to Professor Hiroshi Matsumoto of Osaka Women's University. Professor Matsumoto arrived in August and will spend a year working with Dr. Hlynka on the role of the sulfhydryl group.

Dr. W. Bushuk was awarded a National Research Council Overseas Fellowship and one of the two Rutherford Memorial Fellowships offered each year by the Royal Society of Canada. He has been granted leave of absence and will spend a year with Professor H. Benoit at the Centre des Recherches sur les Macromolécules at Strasbourg. Mr. M. H. Birnboim is still on leave for studies towards the degree of Ph.D. at the University of Wisconsin.

Good progress is being made with the expansion of the Laboratory recommended in the Annual Report of the Board for 1956. Two chemists, Mr. R. R. Matsuo and Miss M. E. McMullan, joined the professional staff, and five additions were made to the subprofessional staff during the year.

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An additional 5,000 sq. ft. of space has been obtained on the ground floor adjoining existing laboratories. This will permit consolidation of all routine studies and services on the ground floor, leaving the eighth floor laboratories for applied and basic research. Provision is being made on the ground floor for doubling the size of the milling and baking sections, for a section to house the malting equipment and associated analyses, and for general analytical laboratory. The workshop, darkroom, drafting and statistical services, will be moved to the ground floor, and larger quarters will be provided for the sample room, library, and general office. By the end of the year, the new analytical laboratory, sample room and workshop, were occupied. Remaining reconstruction should be completed within the next six to eight months.

Overseas Visits and Visitors

During the year, three members of the staff went abroad on official visits. Dr. G. N. Irvine, with Mr. A. W. Alcock of the Maple Leaf Milling Company, undertook a technical mission to Japan to study the cereal processing industries and related research. Dr. Irvine also visited Hong Kong and Karachi en route to Europe where he spent several weeks, on behalf of the Canadian Wheat Board, on investigations relating to durum wheat in Italy, Germany, France, Netherlands and Switzerland.

Dr. W. O. S. Meredith, who was on furlough leave in the United Kingdom, accepted an invitation to present a paper at the European Brewery Convention Congress in Copenhagen, and subsequently visited centres of barley research in Denmark, Sweden, Holland, Germany, France, Ireland and the United Kingdom.

Dr. J. A. Anderson was in France, as a representative of the Department of Trade and Commerce, and subsequently made additional visits in Belgium, Netherlands, Germany and the United Kingdom.

The Laboratory was especially pleased to welcome five well known cereal chemists from Europe: Ing. E. Maes of Belgium, Dr. G. L. Bertram of the Netherlands, Dr. S. Wagner of Switzerland, Dr. W. Schafer of Germany, and Dr. F. Muntoni of Italy.

Two missions from the United Kingdom, two from Turkey and one each from Poland, Pakistan, Burma, the Soviet Union, Germany, and Roumania visited the Laboratory. Other overseas visitors came from Australia, Austria, France, Greece, Ireland, Japan, South Africa and Switzerland. Canadian Commercial Counsellors or Trade Commissioners from Bogota, Belgium, Germany, Philippines and Portugal, also visited the Laboratory during 1957.

APPENDIX I

Canadian Government Elevators

A. E. JACOBSON, General Manager

In accordance with the provisions of Section 166 of the Canada Grain Act and Order-in-Council P.C. 1372 of August 19, 1925, the Board manages and operates five interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge, and one terminal elevator at Prince Rupert, and leases one terminal elevator at Port Arthur.

In the 1956-57 crop year the interior elevators were operated under Public Terminal Elevator Licence. The Prince Rupert elevator was operated under a Semi-Public Terminal Elevator Licence and the Port Arthur elevator continued under lease to McCabe Grain Company Limited.

Handlings

Receipts at 17.0 million bushels in the 1956-57 crop year were 36 per cent higher than the previous year while shipments at 18.7 million bushels were 31 per cent higher. Shipments were 1.7 million bushels higher than receipts, which is reflected in lower stocks in store at the end of the crop year. Receipts of wheat and barley at 13.2 million bushels constituted 75 per cent of total receipts. Receipts at Prince Rupert were composed entirely of barley. Receipts and shipments by elevators were:

Elevator	Capacity	Stocks August 1, 1956	Net Receipts	Net Shipments	Stocks July 31, 1957
	million bu.	bu.	bu.	bu.	bu.
Moose Jaw.....	5.50	5,020,858	1,178,847	803,982	5,395,723
Saskatoon.....	5.50	3,807,796	3,360,049	3,891,856	3,272,128
Calgary.....	2.50	1,742,266	2,160,721	2,625,927	1,277,060
Edmonton.....	2.35	873,170	1,694,169	1,722,057	842,982
Lethbridge.....	1.25	1,167,245	597,682	1,073,176	692,714
Prince Rupert.....	1.25	956,583	8,048,192	8,650,870	349,697
Totals.....	18.35	13,567,918	17,039,660	18,767,868	11,830,304

Charges

Storage and elevation charges at the interior terminals remained unchanged. Storage charges were 1/45c per bushel per day. Storage charges at Prince Rupert were increased on September 13, 1956 from 1/35c per bushel per day to 1/30c per bushel per day, the same as in effect at the Lakehead and other Pacific Coast elevators. The same applies to elevation charges but at interior elevators, elevation charges on wheat, oats, barley and corn at 1½c per bushel were lower by 1c and on rye at 1½c per bushel and flax at 2¼c per bushel were lower by 1½c per bushel than charges at Lakehead and other Pacific terminal elevators.

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Maintenance

Elevator buildings, equipment and trackage were maintained in good repair. The installation of a Dust Control System in the Moose Jaw elevator commenced in 1956 was completed in September, 1957. A similar installation is in progress at the Saskatoon elevator and is scheduled for completion in September, 1958. Fire Escapes and Stairwell Enclosures were completed at all elevators. Repairs to concrete surfaces at the Edmonton elevator were completed. Similar repair at the Port Arthur elevator is scheduled for completion in 1958. The first phase of converting the Morris Steam Drier at the Moose Jaw elevator to a direct oil heat system was completed.

Complete new Man-Hoists were installed in the Moose Jaw, Saskatoon and Calgary elevators replacing obsolete and worn out equipment.

A start has been made toward equipping Millwright workshops throughout with power tools to enable repairs to be made in the plant instead of being sent to outside shops as formerly. This will save time and reduce repair costs.

Staff

Staff employed as at December 31, 1957, compared with figures at December 31, 1956, is as follows:

	1957		1956	
	Continuing Establish-ment	Casuals	Continuing Establish-ment	Casuals
Winnipeg (Head Office)	8	—	8	—
Moose Jaw.....	31	1	27	4
Saskatoon.....	29	10	26	15
Calgary.....	32	2	30	6
Edmonton.....	30	—	27	13
Lethbridge.....	19	3	18	1
Prince Rupert.....	29	17	23	24
	178	33	159	63

Revenue and Expenditure

Revenue and expenditure for the fiscal year 1956-57 compared with the previous fiscal year were as follows:

	1956-57	1955-56
Revenue.....	\$1,982,430	\$1,634,032
Expenditure.....	1,323,293	1,143,983
Surplus.....	659,137	490,049

For the first nine months of the current fiscal year revenue was \$1,480,470 and expenditure was \$880,554.

APPENDIX J

Table J-1.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year ended March 31, 1957

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$	\$	\$	\$	\$
WINNIPEG					
Executive.....	58,958.03	9,129.68	5,741.98	12,634.75	86,464.44
Assistant Commissioners.....	11,139.96	836.80	1,633.57	331.38	13,941.71
License and Bonding.....	25,100.98	2,100.00	22.15	2,245.28	29,468.41
Registration.....	34,366.44	3,135.00	384.10	1,479.19	39,364.73
Research Laboratory.....	157,685.66	18,838.00	7,215.56	45,591.50	229,330.72
Statistics.....	82,876.22	6,603.32	953.30	27,645.86	118,078.70
Appeal Tribunal.....	9,443.27	589.08	—	1,602.29	11,634.64
Standards Committee.....	—	—	3,961.85	2,750.00	6,711.85
Inspection.....	638,626.90	26,325.72	4,152.42	39,103.85	708,208.89
Weighing.....	61,420.44	1,560.40	571.80	1,069.99	64,622.63
CHURCHILL					
Inspection.....	22,349.28	—	6,005.65	1,009.39	29,364.32
Weighing.....	12,094.04	—	3,421.38	342.94	15,858.36
KEEWATIN					
Inspection.....	6,815.40	—	—	20.40	6,835.80
Weighing.....	9,162.64	—	—	58.46	9,221.10
REGINA					
Assistant Commissioner.....	11,285.41	1,897.56	2,391.66	407.21	15,981.84
SASKATOON					
Assistant Commissioner.....	11,980.98	—	1,730.56	182.92	13,894.46
Inspection.....	38,868.24	877.00	—	1,064.47	40,809.71
Weighing.....	30,001.57	—	671.69	31.50	30,704.76
MOOSE JAW					
Inspection.....	34,873.36	1,440.00	154.39	1,226.19	37,693.94
Weighing.....	18,455.29	—	574.79	31.83	19,061.91
MEDICINE HAT					
Inspection.....	11,340.00	841.00	—	277.93	12,458.93
Weighing.....	11,520.89	—	—	38.70	11,559.59
LETHBRIDGE					
Inspection.....	10,570.24	—	—	141.13	10,711.37
Weighing.....	4,630.00	—	—	11.75	4,641.75
CALGARY					
Assistant Commissioner.....	1,976.66	138.00	323.32	37.95	2,475.93
Inspection.....	107,075.96	6,581.00	723.21	4,408.18	118,788.35
Weighing.....	50,080.04	712.34	1,205.06	419.43	52,416.87
Appeal Tribunal.....	6,120.00	892.50	—	1,200.33	8,212.83
EDMONTON					
Assistant Commissioner.....	9,883.30	1,660.00	3,943.81	679.78	16,166.89
Inspection.....	121,208.53	8,764.00	107.90	4,593.46	134,673.89
Weighing.....	13,700.76	—	70.70	115.28	13,886.74
Appeal Tribunal.....	6,120.00	1,170.00	—	891.78	8,181.78
VANCOUVER					
Inspection.....	195,575.55	6,965.40	158.90	6,266.16	208,966.01
Weighing.....	181,266.60	2,675.40	223.32	2,814.68	186,980.00
Registration.....	10,776.78	1,795.20	—	301.83	12,873.81

BOARD OF GRAIN COMMISSIONERS

Table J-1.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year ended March 31, 1957—Concluded

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$	\$	\$	\$	\$
VICTORIA					
Inspection.....	9,030.69	—	443.20	7.00	9,480.89
Weighing.....	7,985.10	—	62.00	—	8,047.10
PRINCE RUPERT					
Inspection.....	12,537.98	—	597.81	74.00	13,209.79
Weighing.....	10,143.22	—	223.26	76.00	10,442.48
FORT WILLIAM					
Inspection.....	792,421.20	19,598.00	4,951.94	14,871.57	831,842.71
Weighing.....	610,660.80	4,210.00	21,780.39	8,481.64	645,132.83
TORONTO					
Inspection.....	8,756.24	1,200.00	516.70	853.02	11,325.96
Weighing.....	4,380.00	—	—	4.00	4,384.00
CHATHAM					
Inspection.....	39,026.96	1,380.00	13,653.98	1,470.82	55,531.76
OTTAWA					
Inspection.....	—	499.00	3,748.02	928.77	5,175.79
MONTREAL					
Inspection.....	114,062.58	4,296.00	12,156.01	4,142.23	134,656.82
Weighing.....	5,077.50	939.36	460.67	853.16	7,330.69
Registration.....	14,700.00	1,664.64	—	989.58	17,354.22
Totals.....	3,646,131.69	139,314.40	104,937.05	193,779.56	4,084,162.70

Table J-2.—Accrued Revenue, by Point and Branch, Fiscal Year ended March 31, 1957

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
	\$	\$	\$	\$
WINNIPEG				
Executive.....	—	—	460.00	460.00
License and Bonding.....	29,254.00	—	—	29,254.00
Registration.....	33,499.43	—	7.00	33,506.43
Appeal Tribunal.....	2,133.00	—	—	2,133.00
Research Laboratory.....	—	—	3.68*	3.68
Inspection.....	431,834.25	11,998.13	5,347.60	449,179.98
Weighing.....	27,647.57	—	2,320.98	29,968.55
CHURCHILL				
Inspection.....	52,156.64	—	—	52,156.64
Weighing.....	26,264.32	—	—	26,264.32
KEEWATIN				
Inspection.....	6,020.40	486.64	407.16	6,914.20
Weighing.....	7,537.58	—	—	7,537.58
SASKATOON				
Inspection.....	26,765.63	873.93	—	27,639.56
Weighing.....	14,828.21	—	—	14,828.21
MOOSE JAW				
Inspection.....	14,742.97	482.40	—	15,225.37
Weighing.....	7,733.60	—	—	7,733.60

TRADE AND COMMERCE

Table J-2.—Accrued Revenue, by Point and Branch, Fiscal Year ended March 31, 1957—
Concluded

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
	\$	\$	\$	\$
MEDICINE HAT				
Inspection.....	11,220.93	324.17	—	11,545.10
Weighing.....	12,418.14	—	1,127.35	13,545.49
LETHBRIDGE				
Inspection.....	2,547.00	146.05	—	2,693.05
Weighing.....	485.00	—	—	485.00
CALGARY				
Inspection.....	103,085.33	2,305.36	406.51	105,797.20
Weighing.....	18,390.26	—	1,183.80	19,574.06
Appeal Tribunal.....	1,422.00	—	—	1,422.00
EDMONTON				
Inspection.....	99,318.26	1,960.88	439.25	101,718.39
Weighing.....	4,810.59	—	8.64	4,819.23
Appeal Tribunal.....	969.00	—	—	969.00
VANCOUVER				
Inspection.....	279,363.39	8,852.53	552.20	288,768.12
Weighing.....	218,402.86	—	355.95	218,758.81
Registration.....	11,853.73	—	—	11,853.73
VICTORIA				
Inspection.....	6,644.63	131.32	—	6,775.95
Weighing.....	5,095.47	—	—	5,095.47
PRINCE RUPERT				
Inspection.....	17,364.87	154.07	—	17,518.94
Weighing.....	12,655.16	—	—	12,655.16
FORT WILLIAM				
Inspection.....	789,279.00	14,710.22	4,347.25	808,336.47
Weighing.....	606,778.97	—	4,798.42	611,577.39
TORONTO				
Inspection.....	3,473.03	90.00	166.07	3,729.10
Weighing.....	4,380.00	—	—	4,380.00
CHATHAM				
Inspection.....	47,816.37	868.68	1,285.89	49,970.94
MONTREAL				
Inspection.....	21,182.35	511.74	868.60	22,562.69
Registration.....	11,588.68	—	—	11,588.68
Totals.....	2,970,962.62	43,896.12	24,086.35	3,038,945.09

(a) Details in Table J-4.

*Refund of Previous Year's Expenditure.

BOARD OF GRAIN COMMISSIONERS

Table J-3.—Accrued Revenue and Net Expenditure, by Points and Branches, Fiscal Year ended March 31, 1957

	Inspection	Weighing	Appeal Tribunals	Registra- tion	License and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Adminis- tration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
REVENUE										
Winnipeg.....	449,179.98	29,968.55	2,133.00	33,506.43	29,254.00	—	3.68	—	460.00	544,505.64
Churchill.....	52,156.64	26,264.32	—	—	—	—	—	—	—	78,420.96
Keewatin.....	6,914.20	7,537.58	—	—	—	—	—	—	—	14,451.78
Saskatoon.....	27,639.56	14,828.21	—	—	—	—	—	—	—	42,467.77
Moose Jaw.....	15,225.37	7,733.60	—	—	—	—	—	—	—	22,958.97
Medicine Hat.....	11,545.10	13,545.49	—	—	—	—	—	—	—	25,090.59
Lethbridge.....	2,693.05	485.00	—	—	—	—	—	—	—	3,178.05
Calgary.....	105,797.20	19,574.06	1,422.00	—	—	—	—	—	—	126,793.26
Edmonton.....	101,718.39	4,819.23	969.00	—	—	—	—	—	—	107,506.62
Vancouver.....	288,768.12	218,758.81	—	11,853.73	—	—	—	—	—	519,380.66
Victoria.....	6,775.95	5,095.47	—	—	—	—	—	—	—	11,871.42
Prince Rupert.....	17,518.94	12,655.16	—	—	—	—	—	—	—	30,174.10
Fort William.....	808,336.47	611,577.39	—	—	—	—	—	—	—	1,419,913.86
Toronto.....	3,729.10	4,380.00	—	—	—	—	—	—	—	8,109.10
Chatham.....	49,970.94	—	—	—	—	—	—	—	—	49,970.94
Montreal.....	22,562.69	—	—	11,588.68	—	—	—	—	—	34,151.37
Ottawa.....	—	—	—	—	—	—	—	—	—	—
Totals.....	1,970,531.70	977,222.87	4,524.00	56,948.84	29,254.00	—	3.68	—	460.00	3,038,945.09

Table J-3.—Accrued Revenue and Net Expenditure, by Points and Branches, Fiscal Year ended March 31, 1957—Concluded

	Inspection	Weighing	Appeal Tribunals	Registra- tion	License and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Adminis- tration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
EXPENDITURE										
Winnipeg.....	708,208.89	64,622.63	11,634.64	39,364.73	29,468.41	118,078.70	229,330.72	6,711.85	100,406.15	1,307,826.72
Churchill.....	29,364.32	15,858.36	—	—	—	—	—	—	—	45,222.68
Keewatin.....	6,835.80	9,221.10	—	—	—	—	—	—	—	16,056.90
Saskatoon.....	40,809.71	30,704.76	—	—	—	—	—	—	13,894.46	85,408.93
Moose Jaw.....	37,693.94	19,061.91	—	—	—	—	—	—	—	56,755.85
Medicine Hat.....	12,458.93	11,559.59	—	—	—	—	—	—	—	24,018.52
Lethbridge.....	10,711.37	4,641.75	—	—	—	—	—	—	—	15,353.12
Regina.....	—	—	—	—	—	—	—	—	15,981.84	15,981.84
Calgary.....	118,788.35	52,416.87	8,212.83	—	—	—	—	—	2,475.93	181,893.98
Edmonton.....	134,673.89	13,886.74	8,181.78	—	—	—	—	—	16,166.89	172,909.30
Vancouver.....	208,966.01	186,980.00	—	12,873.81	—	—	—	—	—	408,819.82
Victoria.....	9,480.89	8,047.10	—	—	—	—	—	—	—	17,527.99
Prince Rupert.....	13,209.79	10,442.48	—	—	—	—	—	—	—	23,652.27
Fort William.....	831,842.71	645,132.83	—	—	—	—	—	—	—	1,476,975.54
Toronto.....	11,325.96	4,384.00	—	—	—	—	—	—	—	15,709.96
Chatham.....	55,531.76	—	—	—	—	—	—	—	—	55,531.76
Montreal.....	134,656.82	7,330.69	—	17,354.22	—	—	—	—	—	159,341.73
Ottawa.....	5,175.79	—	—	—	—	—	—	—	—	5,175.79
Totals.....	2,369,734.93	1,084,290.81	28,029.25	69,592.76	29,468.41	118,078.70	229,330.72	6,711.85	148,925.27	4,084,162.70

BOARD OF GRAIN COMMISSIONERS

Table J-4.—Summary of Operations by Branches, Fiscal Year ended March 31, 1957

	Inspection	Weighing	Appeal Tribunals	Registra- tion	License and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Adminis- tration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
REVENUE										
Fees.....	1,912,815.05	967,427.73	4,524.00	56,941.84	29,254.00	—	—	—	—	2,970,962.62
Samples Sold.....	43,896.12	—	—	—	—	—	—	—	—	43,896.12
Other Revenue:										
Overtime Refunded	9,348.12	9,734.87	—	—	—	—	—	—	—	19,082.99
Express Charges.....	4,463.90	—	—	—	—	—	—	—	—	4,463.90
Jury Fees.....	—	48.00	—	—	—	—	—	—	—	48.00
Fines.....	—	—	—	—	—	—	—	—	460.00	460.00
Refund of Previous Year's Expenses.....	—	—	—	—	—	—	3.68	—	—	3.68
Miscellaneous Revenue.....	8.51	12.27	—	7.00	—	—	—	—	—	27.78
Totals.....	1,970,531.70	977,222.87	4,524.00	56,948.84	29,254.00	—	3.68	—	460.00	3,038,945.09
EXPENDITURE										
Salaries.....	2,163,139.11	1,030,578.89	21,683.27	59,843.22	25,100.98	82,876.22	157,685.66	—	105,224.34	3,646,131.69
Rent.....	78,767.12	10,097.50	2,651.58	6,594.84	2,100.00	6,603.32	18,838.00	—	13,662.04	139,314.40
Travel.....	47,370.13	29,265.06	—	384.10	22.15	953.30	7,215.56	3,961.85	15,764.90	104,937.05
General Expenses.....	65,508.50	10,568.47	3,682.65	2,118.53	1,305.19	4,870.12	41,347.51	2,750.00	12,669.81	144,820.78
Printing and Stationery.....	14,950.07	3,780.89	11.75	652.07	940.09	22,775.74	4,243.99	—	1,604.18	48,958.78
Totals.....	2,369,734.93	1,084,290.81	28,029.25	69,592.76	29,468.41	118,078.70	229,330.72	6,711.85	148,925.27	4,084,162.70

APPENDIX K

Regulations

Regulations in effect December 31, 1957, made in accordance with the provisions of the Canada Grain Act

Regulation
No.

- 1 Registration and Cancellation of Terminal Elevator Warehouse Receipts.
- 2 Registration and Cancellation of Eastern Warehouse Receipts and Transfer Receipts.
- 3 Plans re Terminal and Eastern Elevators.
- 4 Cleaning Grain and Bins, Terminal and Eastern Elevators.
- 5 Off Grades for Western Grain.
- 6 Off Grades for Eastern Grain.
- 7 Grades of Screenings.
- 8 Inspection of Samples taken other than at an Inspection Point.
- 9 Appeals from Inspecting Officers to Grain Appeal Tribunals.
- 10 Delivery of Grain to Ocean Vessels at Montreal, Quebec.
- 11 Delivery of Grain to Ocean Vessels at West Saint John, N.B.
- 12 Delivery of Grain to Ocean Vessels at East Saint John, N.B.
- 13 Delivery of Grain to Ocean Vessels at Halifax, N.S.
- 14 Enforcement of Lien by Sale of Grain.
- 15 Drying of Grain.
- 16 Fees.
- 17 Records, Reports and Returns.
- 18 Procedure, Country Elevators.
- 19 Receipt for Grain Delivered to Private Country Elevators and Mill Elevators.
- 20 Maximum Tariff of Charges, Eastern Elevators.
- 21 Maximum Tariff of Charges and Shrinkage Allowance, Country Elevators.
- 22 Maximum Tariff of Charges, Terminal Elevators.
- 23 Applications for Licences and Terms and Conditions under which Licences are issued.
- 24 Storage in Transit of Grain Grown Outside Canada.
- 25 Tickets and Receipts—Country Elevators.
- 26 Grain Treated with Poisonous Materials.
- 27 Shipment of Infested Grain.

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CANADA

Grain Commissioners, Board of

ANNUAL REPORT

OF THE

Board of Grain Commissioners for Canada

FOR THE YEAR

1958

DEPARTMENT OF TRADE AND COMMERCE

OTTAWA, CANADA

Minister:

HON. GORDON CHURCHILL, M.P.

Deputy Minister:

JOHN H. ENGLISH

QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1959

Price: 35 cents



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Winnipeg, Manitoba,
January 23, 1959.

The Honourable Gordon Churchill, M.P.,
Minister of Trade and Commerce,
Ottawa, Canada.

Sir:

We beg to submit herewith Report of the Board of Grain Commissioners for Canada for the year 1958 in compliance with Section 23 of the Canada Grain Act.

This report records information and statistics relating to grain handlings for the crop year August 1, 1957 to July 31, 1958, expenditures and revenue for the fiscal year April 1, 1957 to March 31, 1958, and summarizes the major activities of the Board for the 1958 calendar year.

Grain Supplies and Disposition—Crop Year 1957-58

Canada made considerable progress during the 1957-58 crop year towards the reduction of the record carryover held at the end of the preceding season. Lighter crops, improved overseas exports, and steadily climbing domestic needs resulted in a 19.6% decline in supply levels by July 31, 1958.

The August 1, 1957, supplies of 1,120.3 million bushels of wheat, oats, barley, rye and flaxseed, held either in licensed storage or in farmers' bins, or in transit between positions, represented a record inward stock. Acreage reductions and lighter yields resulted in smaller crops of each of wheat (370.5), oats (380.6), barley (216.0), rye (8.5) and flaxseed (19.2) millions. This total production of 994.8 million bushels, added to the inward carryover, gave an available supply of 2,115.1 million bushels for domestic needs and exports—122.0 millions less than the 1956-57 level.

Canada's export shipments of grain and wheat flour at 435.7 millions were 51.7 millions heavier than clearances recorded for 1956-57. Increased domestic needs boosted Canadian usage for feed, seed, food and industrial use to 779.0 millions, an all-time high.

The combined domestic and export disappearance of 1,214.7 millions was approximately 100.0 millions above the preceding year's level and this, coupled with a smaller available supply, resulted in a 219.9 million bushel, or 19.6% reduction in closing stocks (900.4 million bushels) held in all positions at July 31, 1958.

Within the licensed elevator system there was a moderate increase in the forwarding movement to meet the heavier export flow. Atlantic Seaboard shipments were improved slightly but did not return to former levels. Clearances through Canada's west coast ports accounted for the major expansion and established a new crop season record—169.6 million bushels. For the most part these increases were gradual and evenly distributed over the season. An exception was the movement out of St. Lawrence ports which was down 29.0 millions during the fall period and made its recovery through heavier shipping in the closing quarter of the season.

Marketings

Primary deliveries of wheat, oats, barley, rye and flaxseed from farms to licensed elevators totalled 580.6 million bushels in 1957-58. Heavier marketings during the closing four months did not offset the slow inward movement of the fall period and the crop year total was 8.1 millions below 1956-57 levels despite gains in deliveries of wheat and rye. The bulk—570.1 millions—of this incoming grain was delivered to western country elevators with 5.8 millions

marketed direct to interior mills and terminals, and only .1 millions of the five principal grains loaded over platforms. Deliveries of eastern grown grains to the licensed system amounted to 4.6 millions, chiefly wheat.

Country Elevator Shipments

Western country elevators reported a slightly heavier volume of car loadings with small increases in the shipments of all grains excepting flaxseed. The crop year total for wheat loadings was 374.3 millions, followed by barley at 118.7 millions, oats at 67.2 millions, flaxseed at 15.5 millions, and rye at 7.1 million bushels. The combined total of 582.8 millions for the five principal grains represented a gain of 22.1 millions over the previous year's rail traffic. Loadings billed westward accounted for 27.9% of country shipments compared with 24.2% in 1956-57 and 21.0% in 1955-56.

Terminal Handlings

The higher proportion of country shipments moving westward was reflected in a 23.9 million bushel decline in grain unloads at Fort William-Port Arthur terminal elevators. The 326.0 million bushels of the five principal grains received at the Canadian Lakehead during 1957-58 were almost identical with both the total quantity and the individual grain amounts moved forward from these terminals by lake and rail during the crop year—wheat 178.2, oats 56.8, barley 78.7, rye 4.9 and flaxseed 10.2 million bushels. The vessel portion of these shipments—316.0 millions—was 5.0 millions heavier than the 1956-57 lake traffic but a reduced rail movement (12.8 millions) offset this gain and the combined outward total was approximately unchanged from the previous season's forwarding level. The decline in outward rail traffic represented a further reduction in the portion of Lakehead shipments moving by box car. In 1952-53, 57.5 millions or 11.1% of total forwarding moved by rail compared with only 3.9% by rail during the year under review.

The Port of Churchill continued its pattern of increased shipping activity with 16.6 million bushels of wheat loaded during the normal August to October period, to which a record early opening on July 26, 1958, added a further 1.8 millions for a 1957-58 crop year total of 18.4 million bushels.

The Pacific coast ports, favoured by an advantage in low ocean freight rates, handled a combined 169.6 million bushels of Canada's overseas grain shipments to surpass the previous record of 139.0 millions established by this sector in 1956-57. The 1957-58 total included 129.7 million bushels of wheat, 2.2 million bushels of oats, 30.3 millions of barley, 1.4 millions of rye and 6.0 millions of flaxseed. The crop year movement represented individual grain records for wheat, rye and flaxseed. The record for barley clearances via the Pacific Seaboard was established at 31.2 millions in 1956-57.

Eastern Elevator Handlings

Improved shipping during the closing months boosted the 1957-58 Eastern Seaboard export total to 154.4 millions for a gain of 9.2 millions over 1956-57 levels. The Maritime ports of Saint John and Halifax increased their export loadings by 3.2 millions to a winter season's total of 30.9 millions. The balance of the expansion occurred largely at Sorel and Three Rivers.

The internal forwarding pattern at Eastern elevators differed little from that recorded for the previous season. Primary and transfer receipts of the five principal grains totalled 451.2 millions of which transfers or re-handling accounted for 179.2 millions compared with a 460.4 millions total and a 180.2 millions transfer movement in 1956-57. Eastern domestic shipments through

BOARD OF GRAIN COMMISSIONERS

these elevators totalled 115.8 millions, only 1.2 millions heavier than the previous year's movement to flour mills, manufacturing plants and local domestic outlets, principally feed plants and dealers.

Exports

Canada exported 275.7 million bushels of wheat, 39.9 millions of wheat flour, 25.9 million bushels of oats, 75.1 million bushels of barley, 5.4 million bushels of rye and 13.7 million bushels of flaxseed during the 1957-58 crop season. Exports of the five major grains together with the grain equivalent of wheat flour totalled 435.7 million bushels, a gain of 51.7 million bushels over the corresponding total for the 1956-57 season (384.0 millions). The expansion of 47.4 millions in wheat clearances, 6.4 millions in flour shipments and 7.6 millions in oats exports completely offset the 7.9 million bushel drop in exports of Canadian flaxseed from its record level of 21.6 millions in 1956-57 and the minor (1.8 millions) reduction in barley clearances. Rye exports in 1957-58 were almost identical with the preceding season's clearances. The crop year total for the five grains and flour was 120 millions above the long-term (30 year) average of Canadian grain and flour clearances and approximately 57.0 millions above the 378.0 million bushel average recorded for the preceding 10-year period.

The heavier Canadian wheat and flour shipments were made in the face of a reduced world trade in these two commodities and Canada's share of the international movement of bread grains and flour (including rye) moved up sharply from an estimated 22% in 1956-57 to approximately 29.1% during the year under review. Canada's exports of coarse grains held steady in the face of the increasing world market and represented a smaller proportion of the international trade in oats, barley, flaxseed and corn—14% compared with approximately 16% in 1956-57 and 14% in 1955-56.

Domestic Usage

The 779.0 million bushels of wheat, oats, barley, rye and flaxseed used by Canadians for feed, seed and industrial processing to food and other products during the crop year reflected the fourth consecutive yearly increase in Canadian domestic grain usage. The industrial portion as represented by grain moving through the elevator system to mills, maltsters, processors, etc., was practically unchanged with the 47.0 million bushel expansion being drawn directly by farmers and feeders from farm-held stocks. Year ending farm stock surveys, combined with production estimates and commercial marketing records, indicate that approximately 102.7 millions of wheat, 381.7 millions of oats, 122.5 millions of barley, 5.7 millions of rye, and 3.8 millions of flaxseed were used on Canadian farms out of farm-held supplies. These quantities were further supplemented by approximately 91.4 millions of feed and seed grains returned to farm usage after forwarding and/or processing through the licensed elevator system, for the most part from the west to eastern users. Industrial requirements including grain for domestic flour and other human food, distilling, malting and crushing absorbed the remaining 71.2 millions of the 779.0 millions of Canadian grain used domestically.

Carryover

The improved export movement combined with heavier domestic usage and coinciding with lighter crops, reduced Canada's surplus grain supplies appreciably during the 1957-58 crop year. Year ending stocks at July 31, 1958, were estimated to total 900.4 million bushels, reflecting a reduction of 219.9 million bushels from the record high quantities carried over at the close of the previous crop season. The two major items in the 19.6% overall contraction

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achieved during the year were the cuts in stocks of wheat and oats as indicated by the following comparative July 31 carryover totals with 1957 data shown in brackets—wheat 611.5 (729.5), oats 154.9 (226.2), barley 118.2 (142.8), rye 10.1 (14.2) and flaxseed 5.7 (7.6), all in millions of bushels and representing combined holdings, both east and west, on farms, in licensed elevators, in mill bins and in transit between positions on the year ending date.

Licensing and Bonding

The total licensed storage capacity at July 31, 1958, was 636,659,750 bushels, including 14,551,690 bushels in supplementary annexes to country elevators. Licences were in effect for 5,460 country, terminal, mill and eastern elevators; an increase of 8,357,400 bushels capacity, and a decrease of eight licences over the same date in 1957. The greater part of the increase in storage capacity occurred at country elevators.

Assistant Commissioners

Through its four Assistant Commissioners, the Board kept in close touch with the operation of licensed country elevators in the Western Division. During the year 1958, the Assistant Commissioners inspected 685 elevators in Manitoba, 1,095 in Northern Saskatchewan, 951 in Southern Saskatchewan, and 1,718 in Alberta, a total of 4,449. This inspection included checks on scales, sieves and certain other equipment; deductions for shrinkage and Prairie Farm Assistance Act Levy; and posting of current Board Regulations applying to country elevators.

Complaints originating from country points totalled 31, including one carried forward from 1957, as compared with 28 in the previous year.

Disposition of complaints investigated was as follows:

	Manitoba	Saskat- chewan	Alberta	Total
No grounds for complaint.....	2	13	—	15
Settlement effected.....	1	9	1	11
Outside jurisdiction of Board.....	1	—	1	2
Complaint withdrawn.....	1	2	—	3
Totals.....	5	24	2	31

The Assistant Commissioners received and handled numerous inquiries on various matters related to country elevator operation. They also discussed accumulated overages with elevator agents concerned.

Prosecutions

No penalties were levied during 1958 for breaches of the Canada Grain Act or the Board's Regulations.

Defaults

As a result of bankruptcy, one licensee was unable to redeem a number of outstanding cash purchase tickets. Settlement for these tickets was made to the owners by the surety company which had executed the licensee's guarantee bond, on deposit with the Board.

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Shortages and Overages, Country Elevators

While the stock levels in country elevators generally were still high during 1957-58, crop variations across the prairies enabled the operating companies to complete the largest number of country elevator weigh-ups of any season since 1952-53. Reports submitted over the year covered 1,867 separate weigh-overs out of the 5,348 elevators operated, compared with 1,452 completed in 1956-57. The following table contains an analysis and comparison of the results disclosed by these audits:

ELEVATORS REPORTING	1957-58	1956-57
Shortages.....	493	481
Neither overages nor shortages.....	10	2
Overages of less than .25%.....	973	677
Overages of .25% to .50%.....	288	224
Overages over .50%.....	103	68
Total elevators weighed over.....	1,867	1,452

The Board summoned eighty agents of country elevator licensees to appear at hearings held at Winnipeg, Regina, Saskatoon, Calgary and Edmonton in connection with excessively high overages. At these sessions, members of the Board interviewed the agents and examined records concerning their operations in the presence of senior officials of the companies concerned.

Regulations and Orders

Regulation No. 5 was amended effective August 1, 1958, by revising definitions for "Rejected" grades of western barley and flaxseed. Also, two new "Off Grades" of Western grain to be known as "No. 2 Mixed Feed Oats" and "Sample Feed Grain" were named and defined.

Regulation No. 16 was amended effective August 1, 1958, to establish an additional fee of \$5.00 per car for official sampling by probing in the Western Division; this fee payable directly to the Board by the shipper or by the party requesting such service.

Regulation No. 22 was amended effective September 15, 1958, to provide a revised maximum tariff of elevation charges for wagons or trucks at interior terminal elevators at Saskatoon, Moose Jaw, Edmonton, Calgary and Lethbridge.

By Order No. 1—1958-59, dated November 6, 1958, the Board directed that: All artificially dried grain delivered to a licensed country elevator or shipped over a loading platform, shall be declared to be dried grain, and when shipped, the notation "DRIED" shall be carried on the railway bill of lading.

Committees on Grain Standards

The Board constituted Committees on Western and Eastern Grain Standards for the Crop Year 1958-59 as provided in Section 25 of the Canada Grain Act. Personnel of these Committees is listed in Appendix A.

A meeting of the Western Committee was held at Winnipeg on October 23, 1958. The members received numerous reports relating to quality of crops grown in the 1958 season and to various other matters in connection with grading of grain, and also selected and settled standard samples and standard export samples for various grades of Western grain.

The Eastern Committee met in Toronto on August 22, 1958, and in Montreal on November 19, 1958, and established standard samples for grades of grain grown in Eastern Canada.

Both groups authorized continued use of previously selected standard samples in instances where suitable recent samples for established grades were not available.

Inspection of Grain

The Prairie Provinces had an unusual season in 1958. Crops generally started with adequate soil moisture, followed by very dry weather in May and June. At that time crop prospects looked very poor through Manitoba, Saskatchewan and part of Southern Alberta. When rains came in July, the recovery of crops was amazing; yields and grades were higher than had seemed possible early in the season.

No. 2 Manitoba Northern is the predominating grade of Red Spring Wheat, although grades of No. 4 Manitoba Northern and No. 5 Wheat resulted from wet weather at harvest time in northern areas. A high proportion of the Amber Durum crop grades No. 2 Canada Western.

Grades of rye and flaxseed average high; the ergot content of rye is particularly low in this crop.

Crops of oats and barley suffered loss of grade from weather damage in northern areas, but over most of the Prairies the average quality of these grains is high.

Inspections of rapeseed and tame mustard seed have been higher to December 31, 1958, than in the same period a year ago. A high proportion of shipments have qualified for the top grades, but much of the rapeseed from northern areas has been high in moisture content.

Production of safflower seed increased significantly; 160 cars were inspected to December 31, 1958, compared to 59 cars to the end of December, 1957.

Research

Estimates of the quality of 1958 crops of spring wheat, durum wheat, barley and oil seeds were published in the fall in two protein maps and four crop bulletins. This information was also presented to the Committee on Western Grain Standards. Changes to improve the presentation and interpretation of the data in the two cargo bulletin series were made at the beginning of the 1958-59 crop year; these bulletins are in wide demand overseas. Systematic studies of competing wheats entering the European market have been initiated and a continuous check on the quality of Canadian grains at various stages of marketing is being maintained.

The Laboratory and the Inspection Branch have continued their close co-operation in the investigation of the effects of grading factors on quality and studies of the quality of the Standard and Standard Export samples were made. The Laboratory assisted in the supervision of moisture testing in the Board's Inspection offices and CAE electrical moisture meters are now installed in seventeen of the offices. An increasing number of requests for service work have come from the Canadian Wheat Board, the Grain Division of the Department of Trade and Commerce, and from our Trade Commissioners in the grain importing countries. Studies of new varieties continue to occupy an important place in the Laboratory's Applied Research Section, and applied and basic research on quality factors in wheat and barley are being vigorously maintained.

The second postdoctoral Fellow under the N.R.C. Fellowship tenable in the Board's Laboratory is Dr. A. H. Bloksma of the Institute for Cereals, Flour and Bread T.N.O., Holland. Dr. Bloksma arrived in September and will work for a year in the Basic Wheat Research section. Mr. G. S. Bains of the Central Food Technological Research Institute, Mysore, India, is spending a year in

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the Applied Wheat Research Section as a Colombo Plan Fellow. Dr. W. Bushuk has returned from Strasbourg, France, where he spent a year on an N.R.C. postdoctoral Fellowship.

Close liaison is being maintained with cereal chemists in all parts of the world; the Laboratory has welcomed many scientists from all parts of the world this year and two senior staff members went abroad to study grain problems. Dr. Anderson visited Europe for technical discussion in the principal grain importing countries. Dr. Hlynka visited Japan with Dr. McCalla, Dean of Graduate Studies, University of Alberta, for technical discussions with cereal scientists there.

Refitting of Laboratory space in connection with the expansion of facilities is now complete, except for the new malting laboratory on the main floor and the Applied Wheat Research Laboratory, which will be moving into space on the eighth floor presently occupied by the malting laboratory. These moves should be completed during the first half of the coming year.

Weighing of Grain

The staff of the Board's Weighing Branch provided usual weighing services at licensed elevators and investigated complaints relating to reports of excessive outturn shortages on carlot and cargo shipments. The Board's scale inspector carried out periodic tests and inspections of scales at licensed terminal and eastern elevators, and made special inspections when such were considered necessary. Further detailed information in regard to the work of this Branch is given in Appendix F.

Weighover of Stocks, Terminal and Eastern Elevators

In accordance with the provisions of Sections 139 and 140 of the Canada Grain Act, 24 terminal and 21 eastern elevators were weighed over during the 1957-58 crop year by members of the Board's Weighing and Inspection staffs.

Deferments into the following crop year were made at 12 terminal elevators at the Lakehead, 9 terminal elevators at other points, and at 9 eastern elevators. The Board found it necessary to grant these deferments to avoid delaying the handling and loading of grain required to meet export orders. However, it was possible to carry out eleven of these deferred weighovers before the end of December, 1958.

Tables G-12 to G-14 of Appendix G contain the results of weighovers carried out in the 1957-58 crop year.

Entomological Investigations

To safeguard Canadian grain in storage from losses by insects, the program of inspection of terminal elevator premises and stocks begun in 1956 has been continued. Most of the terminal elevators were examined at least once during 1958 and those in the Bay Port and St. Lawrence River areas were visited at least twice. Existing conditions were discussed with management and where necessary, control instructions were issued.

In general the terminal elevators are essentially free from insect pests. Much of the improvement stems from the series of short courses given by the Board's Entomologist, Dr. H. E. Gray, to key personnel in the terminal elevators during 1956 and 1957.

A circular has been distributed to the grain trade on the Pacific Coast dealing with specific problems in that area.

The various grain inspection offices of the Board throughout Canada have been visited and insect problems discussed with key personnel.

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Educational contact has been continued with the grain trade through addresses on grain insect control at the Annual Convention of the Grain Elevator and Processing Superintendents, the Conference of Grain Elevator Superintendents of the National Harbours Board, the Pacific Northwest Fifth Annual Grain Sanitation Short Course, and the joint meeting of the Association of Industrial Sanitarians and the American Association of Cereal Chemists. All of the addresses have been published in trade journals or incorporated in the proceedings of the conferences.

Terminal and Eastern Complaints

During 1958, the Board directed the investigation of 65 complaints regarding reports of excessive outturn shortages on shipments to elevators at the Lakehead, Eastern Canadian points, and U.S.A. points. Included were 31 on vessel shipments from Fort William and Port Arthur, 28 on vessel shipments from Eastern transfer ports, 3 on vessel shipments from other ports, and 3 on carlot shipments.

These complaints were disposed of as follows:

No cause of reported discrepancy found.....	40
No grounds for complaint.....	1
Settlement effected.....	19
Not yet disposed of.....	5
Total.....	65

Complaints on Export Shipments

A total of 36 complaints relating to shipments to overseas destinations were dealt with by the Board and its officials during 1958. Of these, 23 complaints concerned outturn weights reported from overseas, and 13 referred to some aspect of the quality of grain cargoes.

Disposition was as follows:

	Quality	Weight
No cause of reported discrepancy found.....	—	14
No grounds for complaint.....	13	—
Settlement effected.....	—	1
Complaint withdrawn.....	—	3
Not yet disposed of.....	—	5
Totals.....	13	23

Statistics

Statistics relating to Canadian grain movement collected and compiled by the Board's Statistics Branch are presented in Appendix G of this report.

Information Program

The Board's mobile exhibit was on display at 18 Agricultural Fairs and Field Days in various parts of Manitoba, Saskatchewan and Alberta during 1958. This exhibit, housed in a large trailer, features a display of the main grain grades, coloured photographs of types of kernel damage, pictures of Board operations, and posters outlining the rights and privileges of the farmer under the Canada Grain Act. It was in charge of two of the Board's Grain Inspectors, who answered many questions from farmers, elevator agents and other interested visitors about grading of grain and the various functions of the Board of Grain Commissioners.

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The colour motion picture film "Grain Handling in Canada" was shown to visitors from Overseas, officials of the Foreign Trade Service of the Department, groups of farmers and agriculture students, and other interested persons.

Missions representing the Japanese Baking Industry, the Swiss Federal Cereals Administration, and the Scottish Co-operative Wholesale Society, visited the Board to discuss matters of mutual interest in the grain trade and obtain first-hand information in regard to the Board's functions and operations. The discussions were followed by tours of the Research Laboratory, the Inspection Branch and other offices.

Other Overseas visitors to the Board's offices came from Australia, Argentina, Belgian Congo, Burma, Denmark, Egypt, Finland, Western Germany, India, Netherlands, New Zealand, Pakistan, Philippines, Peru, Sweden, and the United Kingdom; and included Canadian Commercial Counsellors or Trade Commissioners from Australia, Bogota, Brazil, France, Western Germany, Guatemala, India, Japan, Philippines, and Singapore.

As in previous years, members of the Board and senior officials accepted a number of invitations to address annual meetings of producer organizations and discuss topics of current interest coming under their jurisdiction.

Canadian Government Elevators

Receipts of grain during the crop year 1957-58 at the Canadian Government Terminal Elevators operated by the Board at Moose Jaw, Saskatoon, Calgary, Edmonton, Lethbridge and Prince Rupert were 17.4 million bushels, compared with 17.0 millions in the previous crop year. Shipments amounted to 18.1 millions, a slight reduction from the total of 18.7 million bushels in 1956-57.

In the fiscal year 1957-58, revenues exceeded expenditures by \$467,787.

Lake Freight Rates

The maximum rates authorized by the Board's Order No. 20 of September 28, 1954, as follows, remained in effect throughout the 1958 season of navigation:

	Wheat and Rye	Barley	Oats
		—cents—	
(a) From: Fort William or Port Arthur, Ontario, To: Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	5½	5¼	5
Port Colborne.....	7½	7¼	6¾
Toronto.....	8	7½	7¼
Kingston.....	8¾	8¼	8
Prescott.....	9	8½	8¼
Montreal, Sorel, Three Rivers and Quebec City, Direct or Transferred at Intermediate Ports.....	16	15¼	14
(b) For grain loaded during the month of December in any year these maximum rates are increased two cents (2c) per bushel to compensate for increased insurance rates.			

The average rates charged during the season are given in Table G-11 of Appendix G.

Prairie Farm Assistance Act

Under the provisions of Section 11 of the Prairie Farm Assistance Act, the Board continued to collect the one per cent levy on grain purchased by licensees under the Canada Grain Act. During the crop year 1957-58, the amount

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collected was \$6,114,474.50. Collections by the Board since the inception of the Prairie Farm Assistance Act to July 31, 1958, total \$107,311,189.91.

Commencing in the month of August, 1958, as a result of an amendment to the Prairie Farm Assistance Act, licensees have been required to deduct the levy from the purchase price paid for all flax and rapeseed, in addition to wheat, oats, barley and rye.

Organization and Personnel

Mr. A. F. Dollery retired from the position of Chief Grain Inspector after 47 years' service with the Board and was succeeded by Mr. M. J. Conacher. Mr. P. Fraser was promoted to replace Mr. Conacher as Assistant Chief Grain Inspector.

Mr. C. F. Spittle, Licensing Officer of the Board, died on December 6, 1958. He had been a member of the staff since 1913.

At December 31, 1958, the Board's staff totalled 935, the same number as at December 31, 1957. The staff of the Canadian Government Elevators numbered 237, including 12 employees of the new Repair and Reconstruction Unit.

A chart of the Board's organization at the close of the year follows this report.

Expenditure and Revenue

Total expenditure and accrued revenue of the Board, exclusive of the Canadian Government Elevators, for the fiscal year 1957-58 compared with 1956-57 was as follows:

	1957-58	1956-57
Expenditure.....	\$4,295,129.93	\$4,084,162.70
Revenue.....	2,556,669.93	3,038,945.09

Expenditure for the nine months of the 1958-59 fiscal year to December 31, 1958, totalled \$3,054,553 as against \$2,930,732 for the comparable period during 1957-58. Cash Revenue for the same nine-month period amounted to \$2,062,617 as compared with \$1,946,092 in the previous year.

Attached hereto is a series of Appendices which outline in greater detail the work of the Board's Branches.

Respectfully submitted,

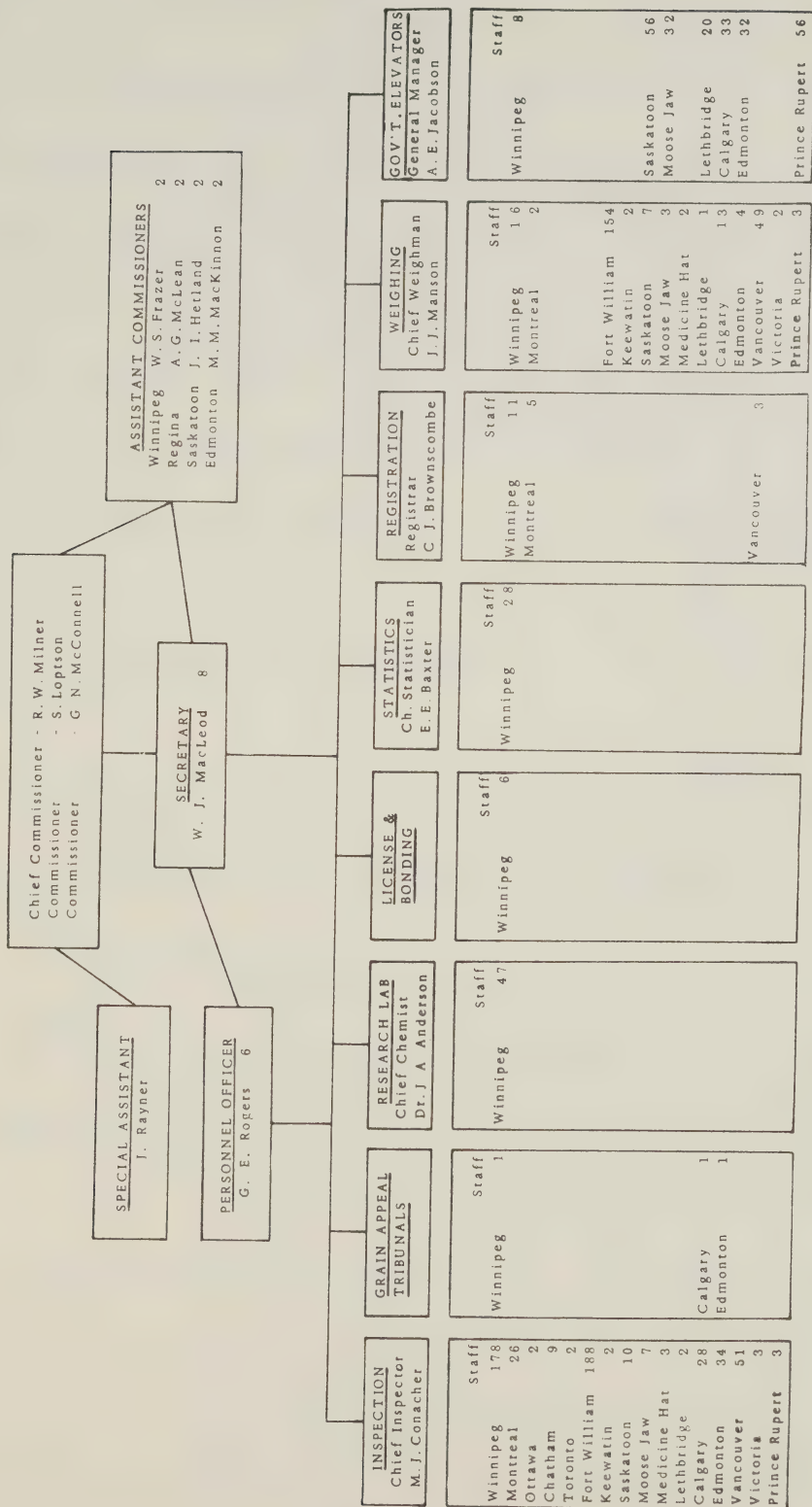
R. W. MILNER,
Chief Commissioner

S. LOPTSON,
Commissioner,

W. J. MacLEOD,
Secretary

GEO. N. McCONNELL,
Commissioner

BOARD OF GRAIN COMMISSIONERS FOR CANADA



APPENDIX A

**Committee on Western Grain Standards, as at
December 31, 1958**

R. W. Milner, Chief Commissioner, Board of Grain Commissioners
 S. Loptson, Commissioner, Board of Grain Commissioners
 G. N. McConnell, Commissioner, Board of Grain Commissioners
 M. J. Conacher, Chief Grain Inspector, Board of Grain Commissioners
 Dr. J. A. Anderson, Chief Chemist, Grain Research Laboratory
 D. E. Ross, Chairman, Grain Appeal Tribunal, Winnipeg
 R. E. Forrester, Chairman, Grain Appeal Tribunal, Calgary
 A. M. Creighton, Chairman, Grain Appeal Tribunal, Edmonton
 Dr. D. G. Hamilton, Dominion Cerealists
 L. A. McCorquodale, representing the millers of wheat flour

George Bennett.....	}	Representing grain growers in Alberta
W. H. Fairfield.....		
Uri Powell.....		
B. S. Plumer.....		

J. H. Harrison.....	}	Representing grain growers in Saskatchewan
A. P. Gleave.....		
J. Wellbelove.....		
L. L. Gray.....		
N. W. Strelloff.....		

W. J. Parker.....	}	Representing grain growers in Manitoba
R. Barrett.....		
Ray Mitchell.....		

G. Constable, representing grain growers in British Columbia
 L. Bell, representing Plant Products Division, Department of Agriculture

**Committee on Eastern Grain Standards, as at
December 31, 1958**

R. W. Milner, Chief Commissioner, Board of Grain Commissioners
 S. Loptson, Commissioner, Board of Grain Commissioners
 G. N. McConnell, Commissioner, Board of Grain Commissioners
 M. J. Conacher, Chief Grain Inspector, Board of Grain Commissioners
 W. G. Thomson, representing Montreal Board of Trade
 E. D. Sullivan, representing Toronto Board of Trade
 C. Gordon McAuley, representing exporters of grain

F. H. Dunsford.....	}	Representing millers of wheat in the Eastern Division
H. Norman Davis.....		

J. R. Heaney.....	}	Representing grain growers in Ontario
A. McLean.....		

G. C. Nichols, representing growers of corn
 E. B. Paterson, Additional
 A. Bowman, Additional

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APPENDIX B

Grain Appeal Tribunals

Winnipeg	Calgary	Edmonton
D. E. Ross (Chairman)	R. E. Forrester (Chairman)	A. M. Creighton (Chairman)
J. E. G. Hasell	G. R. Deeton	H. A. Haggarty
J. F. Lazenby	B. T. Jenkins	D. G. MacKeracher
Wm. E. McLeod	A. E. Jones	C. E. Sage
G. I. Rocan	A. E. Longhurst	J. F. Schofield
E. A. Sangster	W. G. McLeod	T. Stickney
R. C. Sproule	W. M. Pringle	N. Topolnitsky
V. J. Stubbs	J. Tranter	M. G. Wood
G. A. Turner	A. Watson	C. C. Young
N. Kawka (Secretary)		

Toronto	Montreal
C. H. Coatsworth	P. J. Smith (Chairman)
J. Elder	P. Blouin
C. W. Heimbecker	S. Brooks
J. Jervis	J. A. Byrne
R. C. Pratt	E. B. Paterson
E. D. Sullivan	R. Strauss
A. L. Walker	
D. C. Kay, Jr. (Secretary)	Mrs. Muriel B. Hunter (Secretary)

For information on Appeals of Carlot Inspections refer to Appendix E, Table E-7.

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APPENDIX C

Licence and Bonding Branch

Licences are issued by the Board under the provisions of Section 79 of the Canada Grain Act which section also provides that every applicant for a licence shall furnish security by bond or otherwise for the due performance by the licensee of all obligations imposed upon him by the Act.

The Act provides that no railway company or vessel shall receive any Western grain from any elevator or discharge any such grain into any elevator unless such elevator is licensed.

The Act also provides that, except for contracts for the purchase of grain the consideration payable under which is to be paid in full in cash at the time of the making thereof or contracts for the purchase of grain made on the premises of a recognized grain exchange by or through brokers who are members of such exchange, no person in the Western division may make any contract for the purchase of Western grain by reference to any grade name nor act on behalf of any other person in making such contract on a commission basis, unless he is licensed under the Canada Grain Act as a grain dealer, track buyer or grain commission merchant.

During the crop year 1957-58, 5,523 licences were issued to 106 firms and individuals to handle grain under the Canada Grain Act, or seventeen less than in the previous crop year. In addition, country elevator licensees were authorized to use 389 off-site grain storage buildings, comprising flour sheds, coal sheds, skating rinks and other buildings.

On July 31, 1958, with 5,460 elevator licences in force and 367 buildings authorized for supplementary storage, the total licensed storage capacity was 622,108,060 bushels in elevators, and 14,551,690 bushels in special storage annexes to country elevators. In addition, 49 Track Buyers', Commission Merchants' and Grain Dealers' licences were also in force. The following table gives a comparative statement of numbers and classes of licences in force and storage capacity:

Kind of Licence	Licences in force July 31		Licensed storage capacity July 31	
	1958	1957	1958	1957
Country Elevators.....	5,348	5,360	369,493,750	360,886,950
Supplementary Annexes to Country Elevators.....	*	*	14,551,690	15,142,090
Terminals and Mill Elevators.....	81	78	158,312,010	158,171,010
Eastern Elevators.....	31	30	94,302,300	94,102,300
Track Buyers, Commission Merchants and Grain Dealers.....	49	50	†	†
Totals.....	5,509	5,518	636,659,750	628,302,350

*367 buildings at July 31, 1958, and 403 buildings at July 31, 1957.

†These licences do not cover grain storage facilities.

During the crop year, fourteen elevator licences were cancelled, two on account of licensee changing class of operation, five destroyed by fire, two dismantled by licensees, three converted into annexes and two because licensee defaulted. The authorities covering twenty-two supplementary annexes were also cancelled.

BOARD OF GRAIN COMMISSIONERS

Sixty-seven country elevator licences were suspended by the Board for varying periods during rehabilitation and reconstruction of buildings. Fifty-one of these were subsequently reinstated, nine were cancelled and seven were still under suspension at July 31, 1958.

Guarantee bonds in the amount of \$29,674,756.50 executed by fifteen approved surety companies were deposited with the Board as security under Section 79 of the Canada Grain Act to cover operations of licensees during 1957-58. Two licensees deposited negotiable Government bonds with a par value of \$2,000 in lieu of furnishing the usual form of surety bonds.

At December 1, 1958, at which date essentially all licences were issued for the 1958-59 crop year, there were 5,433 elevator licences in force. In addition, 247 buildings other than elevators were authorized for supplementary storage. The total licensed storage capacity as at December 1, 1958, was 626,090,050 bushels in elevators and 12,991,550 bushels in grain storage buildings other than licensed elevators, or a total increase of 6,889,850 bushels since December 1, 1957. The total licensed storage capacity by provinces is: Manitoba, 60.4 million; Saskatchewan, 218.2; Alberta, 143.4; British Columbia, 26.9; Ontario 153.2; and Quebec and the Maritimes, 36.9 million bushels.

Table C-1.—Number and Kind of Licences Issued and Licensed Storage Capacity, as at December 1st each year for the Past Five Years

Kind of Licence	1958	1957	1956	1955	1954
NUMBER OF LICENCES					
Public Country Elevator.....	5,314	5,343	5,354	5,369	5,352
Private Country Elevator.....	8	10	9	10	10
Mill Elevator.....	35	33	32	33	36
Public Terminal Elevator.....	—	—	5	5	6
Semi-Public Terminal Elevator.....	40	40	34	35	34
Private Terminal Elevator.....	5	5	5	5	7
Eastern Elevator.....	31	30	30	30	29
Track Buyer.....	22	21	21	21	21
Commission Merchant.....	24	23	23	25	25
Grain Dealer.....	5	5	5	7	8
Totals.....	5,484	5,510	5,518	5,540	5,528
LICENSED CAPACITY					
thousands of bushels					
Public Country Elevator.....	373,357	364,661	356,263	343,953	332,454
Grain Storage Buildings.....	12,992	14,953	15,080	8,522	5,369
Private Country Elevator.....	240	369	337	349	349
Mill Elevator.....	13,671	13,513	13,451	13,525	13,429
Public Terminal Elevator.....	—	—	17,100	17,100	18,350
Semi-Public Terminal Elevator.....	137,524	137,524	118,774	116,624	112,873
Private Terminal Elevator.....	7,070	7,070	7,070	7,070	7,295
Eastern Elevator.....	94,227	94,102	94,102	92,182	90,845
Totals.....	639,081	632,192	622,177	599,325	580,964

TRADE AND COMMERCE

Table C-2.—Licensed Elevators and Storage as at December 1, 1958.

Kind of Elevator	Ontario	Mani- toba	Saskat- chewan	Alberta	British Colum- bia	Quebec and Mari- times	Totals
NUMBER OF ELEVATORS							
Public Country.....	2	696	2,910	1,688	18	—	5,314
Private Country.....	—	2	1	5	—	—	8
Mill.....	3	8	6	9	9	—	35
Public Terminal.....	—	—	—	—	—	—	—
Semi-Public Terminal.....	24	2	2	3	9	—	40
Private Terminal.....	2	2	—	1	—	—	5
Eastern.....	19	—	—	—	—	12	31
Totals.....	50	710	2,919	1,706	36	12	5,433
STORAGE CAPACITY							
thousands of bushels							
Public Country.....	65	48,849	195,572	126,839	2,032	—	373,357
†Grain Storage Buildings.....	1,400	140	6,644	4,808	—	—	12,992
Private Country.....	—	45	32	163	—	—	240
Mill.....	1,480	2,255	4,915	4,049	972	—	13,671
Public Terminal.....	—	—	—	—	—	—	—
Semi-Public Terminal.....	90,517	6,000	11,000	6,100	23,907	—	137,524
Private Terminal.....	2,435	3,145	—	1,490	—	—	7,070
Eastern.....	57,286	—	—	—	—	36,941	94,227
Totals.....	153,183	60,434	218,163	143,449	26,911	36,941	639,081

†Off-site storage.

Collection of One Per cent Levy

The collection during the crop year 1957-58 of the one per cent levy made by this office under provisions of the Prairie Farm Assistance Act is recorded at \$6,114,474.50, a decrease of \$91,388.04 from collections during the previous crop year.

Table C-3.—Amounts Collected and Grain Purchased under the One Per Cent Levy, Prairie Farm Assistance Act, Crop Year 1957-58

Province	Wheat	Oats	Barley	Rye	Total
	\$	\$	\$	\$	\$
Manitoba.....	541,703.54	89,349.74	165,175.94	8,104.01	804,333.23
Saskatchewan.....	3,139,079.05	108,160.05	427,162.57	32,146.56	3,706,548.23
Alberta.....	1,162,039.31	62,536.21	360,434.28	18,500.16	1,603,509.96
Totals.....	4,842,821.90	260,046.00	952,772.79	58,750.73	6,114,391.42
Amount not allocated to provinces.....					83.08
Total collections Aug. 1, 1957 to July 31, 1958.....					6,114,474.50
GRAIN PURCHASES					
thousands of bushels					
Manitoba.....	42,285	19,259	19,453	946	81,943
Saskatchewan.....	244,713	24,088	51,576	3,881	324,258
Alberta.....	90,415	14,736	45,578	2,244	152,973
Totals.....	377,413	58,083	116,607	7,071	559,174

APPENDIX D

Registration Branch

C. J. BROWNSCOMBE, Registrar

Section 127 of the Canada Grain Act requires the operators or managers of Public terminal, Semi-Public terminal and Eastern Elevators to issue warehouse receipts for all grain taken into store. Regulations No. 1 and No. 2 made by the Board under the provisions of section 15 (22) of the Canada Grain Act require that all such warehouse receipts be registered with the Board as to grade and quantity at the time of issue, and that these warehouse receipts be surrendered to the Board for registration for cancellation when the grain which they represent has been shipped out.

During the Crop Year 1957-58, registration service was provided for licensees of 40 semi-public terminal elevators and 31 eastern elevators at the offices maintained by the Board at Winnipeg, Montreal and Vancouver.

Table D-1 of this appendix presents the total bushels, by grains, for which warehouse receipts were registered against grain received into store and registered for cancellation against grain shipped, together with the averages of these handlings for the past ten crop years for comparison. Registration service was also provided to licensees for the registration and cancellation of splits, consolidations, grade adjustments and re-issue of warehouse receipts to facilitate documentation in connection with the handling of grain. An increase in this type of work was noted at Vancouver in line with the general increased movement of grain at that point, but at other points it remained at normal levels.

Records were maintained for each licensee in both the Eastern and Western Divisions, by grade, to show the total quantities registered, registered for cancellation or still outstanding each day, while a separate series of records was maintained to provide a complete history of the registration and cancellation particulars for all warehouse receipts issued by these licensees. Certified statements of outstanding warehouse receipt grade totals and of the handlings for the non-mixing grades of wheat and other relevant data, were issued as required for use in connection with the annual weighover of stocks of grain as carried out by Board officials at all terminal and eastern elevators.

Total bushels registered and registered for cancellation for all grains for elevators in the Western Division show increases of 4.6 million and 30.1 million bushels respectively, over those of the previous crop year, and increases of 51.3 million and 63.3 million bushels respectively, over those of the ten-year average. While the total bushels registered against unloads of grain for all elevators in the Eastern Division was slightly less than that of the previous crop year, the quantities registered for cancellation against shipments of grain show an increase of 21.8 million bushels, and increases of 30.8 million and 42.5 million bushels respectively, were recorded in both categories when compared to the ten-year averages.

Fees for registration service were charged at the rate of 4 cents a thousand bushels for registration and for registration for cancellation in the Western Division, and one cent a thousand bushels for similar service in the Eastern Division. The overall increase in volume of handlings for registration for both Eastern and Western Divisions is reflected in the total fees collected for registration service of \$51,749.24 as compared to the ten-year average of \$46,436.49.

TRADE AND COMMERCE

Table D-1.—Warehouse Receipt Registrations for Primary and Transfer Receipts and Shipments at Semi-Public Terminal Elevators and Eastern Elevators, by Area and Grain, Crop Year 1957-58 and 10-year Average.

Area	Grain	Crop Year 1957-58		10-Year Average, 1947-48 to 1956-57	
		Registered	Registered for Cancellation	Registered	Registered for Cancellation
		—thousands of bushels—			
WESTERN DIVISION— Winnipeg, including Lakehead and Churchill.....	Wheat.....	193,677	196,590	200,937	196,434
	Oats.....	54,435	56,518	67,948	69,769
	Barley.....	72,724	72,603	70,561	69,516
	Flax.....	10,103	10,169	9,318	9,060
	Rye.....	5,302	4,989	11,098	10,976
	Mixed Grain...	344	227	888	564
	Corn.....	—	—	30	40
	Other Grains...	179	206	119	127
INTERIOR ELEVATORS— Calgary, Edmonton, Lethbridge, Moose Jaw and Saskatoon.....	Wheat.....	1,422	2,646	5,500	4,313
	Oats.....	688	700	423	457
	Barley.....	2,250	1,984	1,595	1,596
	Flax.....	98	102	257	258
	Rye.....	5	30	42	39
	Mixed Grain...	3	27	2	25
	Corn.....	2	9	16	13
	Other Grains...	3,690	3,117	665	570
VANCOUVER AND PRINCE RUPERT AREA—	Wheat.....	130,573	130,819	85,825	84,759
	Oats.....	1,984	3,204	2,131	3,129
	Barley.....	30,339	30,538	11,605	11,527
	Flax.....	6,151	5,926	561	533
	Rye.....	1,430	1,359	69	66
	Mixed Grain...	16	7	42	52
	Corn.....	—	—	284	283
	Other Grains...	6,159	6,050	425	423
WESTERN DIVISION— All Points—	Wheat.....	325,672	330,055	292,262	285,506
	Oats.....	57,107	60,422	70,502	73,355
	Barley.....	105,313	105,125	83,761	82,639
	Flax.....	16,352	16,197	10,136	9,851
	Rye.....	6,737	6,378	11,209	11,081
	Mixed Grain...	363	261	932	641
	Corn.....	2	9	330	336
	Other Grains...	10,028	9,373	1,209	1,120
Totals—All Grains		521,574	527,820	470,341	464,529
EASTERN DIVISION—	Wheat.....	303,144	308,057	292,691	287,297
	Oats.....	47,127	46,986	42,576	42,465
	Barley.....	80,986	81,283	74,442	74,045
	Flax.....	31,718	31,753	15,222	15,168
	Rye.....	2,810	2,920	8,629	8,604
	Mixed Grain...	551	603	527	507
	Corn.....	8,836	9,419	16,638	16,747
	Screenings.....	2,218	2,289	1,213	1,214
	Peas.....	299	299	69	70
	Soybeans.....	6,542	6,304	2,446	2,438
	Buckwheat.....	449	552	306	296
	Other Grains...	1,099	1,099	269	267
Totals—All Grains		485,779	491,564	455,028	449,118

APPENDIX E

Inspection Branch

M. J. CONACHER, Chief Grain Inspector

Under Section 32 of the Canada Grain Act, the Grain Inspection Branch in the Western Division procures samples and establishes grades on all carlots of grain enroute from country points to terminal and mill elevators, at the primary inspection points of Winnipeg, Calgary and Edmonton. Final grades of carlots of grain unloaded into terminal and mill elevators are established on samples drawn during unloading by officials of the inspection branch at the Lakehead, Pacific Coast, Churchill, and at the interior points Winnipeg, Calgary, Edmonton, Moose Jaw, Saskatoon, Lethbridge and Medicine Hat. Also, all grain shipped from terminal and mill elevators is officially sampled and inspected.

In the Eastern Division, sampling and grading service is provided on request at Chatham and Toronto for Eastern grown grain. At Montreal, Quebec, Sorel, Three Rivers, St. John and Halifax, grain loaded into vessels for export is sampled and the grades are checked.

Grades of all grain in store in all terminal and eastern elevators weighed over during the crop year are verified by officials of the Inspection Branch.

There were four main factors that affected the grades of grain produced in Western Canada in 1957. These were drought that occurred in southern areas, early fall frost that occurred over large areas, hail that occurred in scattered patterns, and unfavourable weather conditions at harvest time in some areas.

The crop of Red Spring Wheat included a low proportion of Manitoba No. 1 Northern (only 0.3% of total inspections). 21.8% of shipments graded Manitoba No. 2 Northern. The grade of Manitoba No. 3 Northern predominated over a large area (34.2% of total inspections), and many districts produced Manitoba No. 4 Northern and No. 5 Wheat as a result of damage from frost and weathering at harvest time. There was a significant increase in the variety Selkirk of Red Spring Wheat; very little of this variety graded higher than Manitoba No. 3 Northern because generally it did not mature well.

Amber Durum Wheat followed a pattern of grades somewhat similar to that of Red Spring Wheat. Only 0.2% of shipments were graded No. 1 Canada Western Amber Durum; 18.2% graded No. 2 Canada Western Amber Durum. The predominating grade of shipments was No. 3 Canada Western Amber Durum (27.0%), closely followed by the grade of No. 4 Canada Western Amber Durum (26.3%), and Extra No. 4 Canada Western Amber Durum (22.9%).

Of barley shipped from Western Canada during the crop year 33.1% was graded No. 1 Feed, mainly on account of shrunken kernels caused by drought, early fall frosts, and unfavourable harvest weather. The unfavourable weather at harvest time caused loosening of hulls of barley so that considerable peeling occurred in handling, thus reducing the grade of much barley that otherwise would have been eligible for higher grades.

The 1957 crop of rye showed a decline in the content of ergot; only 3.8% of shipments were graded Ergoty Rye, as compared to 10.1% in the crop year 1956-57, and 5.9% in the crop year 1955-56.

Inspection of oats included 58.0% of No. 1 Feed, compared to 48.1% in the previous year. Only 12.2% of oats shipped were graded No. 2, No. 3 and Extra No. 3 Canada Western, compared to 26.4% in the 1956-57 crop year. The main damage to oats was caused by frost and weathering at harvest time.

TRADE AND COMMERCE

Rapeseed and Mustard Seed, which are comparatively new oil bearing seeds produced in Western Canada, were generally of high quality. 3,796 carlots of rapeseed inspected constituted a record high quantity of this seed. Mustard Seed shipments declined to 370 cars, from 580 cars in the previous crop year.

Safflower Seed was produced in Western Canada in substantial quantities for the first time; 59 carlots were inspected during the crop year.

Inspection of flaxseed showed a decline to 3.5% from 5.4% of totals for the crop year 1956-57, but remained well above the ten-year average of 2.3% of total carlots inspected.

20,427 samples submitted by country elevator operators and farmers "subject to grade and dockage" were graded during the crop year 1957-58.

The early crops in Eastern Canada in 1957 suffered from damage due to heavy rains at harvest time. A higher proportion than usual of winter wheat was graded as low as No. 3 Canada Eastern Winter. The disease known as "scab" was a more conspicuous degrading factor than for several years.

Only about 50% of the barley crop was of high enough quality to be admitted into the top grades normally accepted by maltsters.

An unusually wet growing season caused losses, both in yield and in quality, to much of the 1957 crop of corn in Southwestern Ontario. Wet weather in the fall retarded ripening and natural drying of corn; more corn than usual was dried artificially.

The 1957 crop of soybeans in Ontario withstood the wet growing season best. The bulk of the crop was graded No. 1 Canada Soybeans, but some lots had high moisture content when delivered by the growers and there was some loss of grade from heating during storage through the winter.

As the harvesting of pea beans got underway in early September, 1957, the quality, condition and colour of this crop was excellent. However, when only about 15% of the pea beans had been harvested, wet weather intervened and the balance of the crop suffered considerable damage from weathering and resultant discolouration.

WESTERN DIVISION

Table E-1.—Primary Carlot Inspections by Grains, Crop Year 1957-58, compared with 1956-57 and 10-year Average 1947-48 to 1956-57

	10-Year Average	1957-58	1956-57	10-Year Average	1957-58	1956-57
		Carlots		Percent of total		
Wheat.....	195,904	200,030	198,796	67.3	67.3	66.5
Oats.....	32,962	21,704	20,868	11.3	7.3	7.0
Barley.....	47,680	55,895	55,168	16.4	18.9	18.5
Rye.....	6,307	3,655	3,339	2.2	1.2	1.1
Flaxseed.....	6,790	10,579	16,257	2.3	3.5	5.4
Mixed Grain.....	520	145	241	0.2	0.1	0.1
Corn.....	166	133	182	0.1	0.1	0.1
Buckwheat.....	75	72	122	*	*	*
Screenings.....	403	443	471	0.1	0.1	0.2
Rapeseed.....	335	3,796	2,375	0.1	1.3	0.8
Sunflower Seeds.....	—	2	—	—	*	—
Peas.....	92	251	234	*	0.1	0.1
Mustard Seed.....	60	370	580	*	0.1	0.2
Sample Grain.....	—	—	2	—	—	*
Safflower Seed.....	—	59	—	—	*	—
Sorghum.....	—	3	—	—	*	—
Totals.....	291,294	297,137	298,635	100.0	100.0	100.0

*Less than 0.05%

BOARD OF GRAIN COMMISSIONERS

Table E-2.—Primary Carlot Inspections by Points, Crop Year 1957-58, compared with 1956-57 and 10-Year Average 1947-48 to 1956-57

	10-Year Average	1957-58	1956-57	10-Year Average	1957-58	1956-57
		carlots			percent of total	
Winnipeg.....	200,738	168,613	188,149	68.9	56.7	63.1
Calgary.....	37,472	57,542	46,993	12.9	19.4	15.7
Edmonton.....	31,092	46,080	39,526	10.6	15.5	13.2
Moose Jaw.....	4,703	3,897	4,454	1.6	1.3	1.5
Saskatoon.....	7,023	8,071	7,304	2.4	2.7	2.4
Lethbridge.....	180	385	628	0.1	0.1	0.2
Medicine Hat.....	2,862	1,958	1,796	1.0	0.7	0.6
Vancouver.....	1,798	649	585	0.6	0.2	0.2
Churchill.....	5,426	9,942	9,200	1.9	3.4	3.1
Totals.....	291,294	297,137	298,635	100.0	100.0	100.0

Table E-3.—Primary Carlot Inspections, Crop Year 1957-58, by Grain and Grades

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT			
1 Manitoba Northern.....	659	0.3	—
2 Manitoba Northern.....	40,897	21.8	—
3 Manitoba Northern.....	64,170	34.2	—
4 Manitoba Northern.....	43,916	23.4	—
No. 4 Special.....	30	*	—
No. 5.....	22,310	11.9	—
No. 5 Special.....	8	*	—
No. 6.....	6,688	3.6	—
Feed.....	193	0.1	—
Sample.....	193	0.1	—
Smutty.....	133	0.1	—
Rejected.....	3,477	1.8	—
Tough.....	4,977	2.6	—
Damp.....	184	0.1	—
Condemned.....	4	*	—
Broken Red Spring.....	3	*	—
Total Red Spring Wheat.....	187,842	100.0	93.9
2 Canada Western Garnet.....	—	—	—
3 Canada Western Garnet.....	8	34.8	—
4 Canada Western Garnet.....	5	21.7	—
Smutty Canada Western Garnet.....	—	—	—
Rejected Canada Western Garnet.....	3	13.1	—
Tough Canada Western Garnet.....	7	30.4	—
Total Garnet Wheat.....	23	100.0	*
1 Canada Western Amber Durum.....	27	0.2	—
2 Canada Western Amber Durum.....	2,118	18.2	—
3 Canada Western Amber Durum.....	3,135	27.0	—
Extra 4 Canada Western Amber Durum.....	2,659	22.9	—
4 Canada Western Amber Durum.....	3,059	26.3	—
5 Canada Western Amber Durum.....	332	2.9	—
6 Canada Western Amber Durum.....	19	0.2	—
Smutty Canada Western Amber Durum.....	9	0.1	—
Rejected Canada Western Amber Durum.....	174	1.5	—
Tough Canada Western Amber Durum.....	29	0.2	—
Damp Canada Western Amber Durum.....	—	—	—
Sample Canada Western Amber Durum.....	55	0.5	—
Total Amber Durum Wheat.....	11,616	100.0	5.8

TRADE AND COMMERCE

Table E-3.—Primary Carlot Inspections, Crop Year 1957-58, by Grain and Grades—
Continued

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT—concluded			
1 Canada Western Soft White Spring.....	5	2.3	—
2 Canada Western Soft White Spring.....	157	74.8	—
3 Canada Western Soft White Spring.....	37	17.7	—
4 Canada Western Soft White Spring.....	3	1.4	—
Tough Canada Western Soft White Spring.....	5	2.3	—
Rejected Canada Western Soft White Spring.....	1	0.5	—
Sample Canada Western Soft White Spring.....	2	1.0	—
Total Soft White Spring Wheat.....	210	100.0	0.1
1 Canada Western Mixed Wheat.....	5	4.1	—
2 Canada Western Mixed Wheat.....	2	1.6	—
3 Canada Western Mixed Wheat.....	60	48.8	—
4 Canada Western Mixed Wheat.....	27	21.9	—
5 Canada Western Mixed Wheat.....	16	13.0	—
6 Canada Western Mixed Wheat.....	6	4.9	—
Smutty Canada Western Mixed Wheat.....	1	0.8	—
Rejected Canada Western Mixed Wheat.....	4	3.3	—
Tough Canada Western Mixed Wheat.....	2	1.6	—
Total Mixed Wheat.....	123	100.0	0.1
1 Alberta Red Winter.....	43	19.9	—
2 Alberta Winter.....	127	58.8	—
3 Alberta Winter.....	17	7.9	—
4 Alberta Winter.....	3	1.4	—
Smutty Alberta Winter.....	24	11.1	—
Rejected Alberta Winter.....	2	0.9	—
Total Alberta Winter Wheat.....	216	100.0	0.1
Total All Wheats.....	200,030	—	100.0

Grade	Carlots	Percentage
OATS		
2 Canada Western.....	41	0.2
Extra 3 Canada Western.....	148	0.7
3 Canada Western.....	2,446	11.3
Extra 1 Feed.....	5,541	25.6
1 Feed.....	12,593	58.0
2 Feed.....	437	2.0
3 Feed.....	101	0.4
Mixed Feed Oats.....	4	*
Rejected Oats.....	84	0.4
Sample Oats.....	65	0.3
Tough Oats.....	237	1.1
Damp Oats.....	1	*
Mixed Feed Oats Groats.....	4	*
Condemned Oats.....	2	*
Total Oats.....	21,704	100.0

BOARD OF GRAIN COMMISSIONERS

Table E-3.—Primary Carlot Inspections, Crop Year 1957-58, by Grain and Grades—
Continued

Grade	Carlots	Percentage
BARLEY		
1 Canada Western Six Row.....	14	*
2 Canada Western Six Row.....	2,421	4.3
3 Canada Western Six Row.....	14,607	26.1
4 Canada Western Six Row.....	2,496	4.5
1 Canada Western Two Row.....	4	*
2 Canada Western Two Row.....	187	0.4
3 Canada Western Two Row.....	4,624	8.3
1 Feed.....	18,485	33.1
Extra Two Feed.....		
2 Feed.....	9,338	16.7
3 Feed.....	797	1.4
Rejected.....	572	1.0
Sample.....	60	0.1
Tough.....	2,239	4.0
Damp.....	49	0.1
Condemned Barley.....	2	*
Total Barley.....	55,895	100.0
RYE		
1 Canada Western.....	41	1.1
2 Canada Western.....	1,415	38.7
3 Canada Western.....	1,657	45.4
4 Canada Western.....	264	7.2
Ergoty.....	139	3.8
Rejected.....	18	0.5
Sample.....	5	0.2
Tough.....	114	3.1
Damp.....	1	*
Ergot and Other Grains.....	1	*
Total Rye.....	3,655	100.0
FLAXSEED		
1 Canada Western.....	6,074	57.4
2 Canada Western.....	3,888	36.8
3 Canada Western.....	361	3.4
4 Canada Western.....	32	0.3
Rejected.....	55	0.5
Sample.....	73	0.7
Tough.....	94	0.9
Damp.....	2	*
Total Flaxseed.....	10,579	100.0
MIXED GRAIN		
1 Canada Western.....	22	15.2
2 Canada Western.....	16	11.0
3 Canada Western.....	50	34.5
4 Canada Western.....	4	2.8
Rejected.....	14	9.7
Sample.....	27	18.6
Tough.....	11	7.5
Damp.....	1	0.7
Total Mixed Grain.....	145	100.0

TRADE AND COMMERCE

Table E-3.—Primary Carlot Inspections, Crop Year 1957-58, by Grain and Grades—
Continued

Grade	Carlots	Percentage
CORN		
1 Canada Western Yellow.....	1	0.7
2 Canada Western Yellow.....	13	9.8
3 Canada Western Yellow.....	23	17.3
4 Canada Western Yellow.....	19	14.3
5 Canada Western Yellow.....	7	5.2
Tough.....	2	1.5
Sample.....	1	0.8
U.S.A. Origin.....	67	50.4
Total Corn.....	133	100.0
MUSTARD SEED		
1 Canada Western Yellow.....	4	1.1
2 Canada Western Yellow.....	4	1.1
3 Canada Western Yellow.....	1	0.3
1 Canada Western Oriental.....	216	58.4
1 Canada Western Brown.....	22	5.9
Sample Canada Western Yellow.....	1	0.2
Others.....	122	33.0
Total Mustard Seed.....	370	100.0
RAPESEED		
Canada.....	3,298	86.9
2 Canada.....	148	3.9
3 Canada.....	17	0.5
Sample Canada.....	12	0.3
Tough.....	305	8.0
Damp.....	16	0.4
Total Rapeseed.....	3,796	100.0
SCREENINGS		
1 Feed.....	8	1.9
Uncleaned.....	255	57.6
Refuse.....	124	27.9
Sample.....	56	12.6
Total Screenings.....	443	100.0
Sunflower Seeds.....	2	—
Buckwheat.....	72	—
Peas.....	251	—
Safflower Seed.....	59	—
Sorghum.....	3	—
Grand Total.....	297,137	—

*Less than 0.05%

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**Table E-4.—Carlots of Tough, Damp and Straight Grain Inspected at
Primary Inspection Points, Crop Year 1957-58**

Grain	Tough	Damp	Tough and Damp	Straight	Total
Wheat.....	5,020	184	5,204	194,826	200,030
Oats.....	237	1	238	21,466	21,704
Barley.....	2,239	49	2,288	53,607	55,895
Rye.....	114	1	115	3,540	3,655
Flaxseed.....	94	2	96	10,483	10,579
Others.....	318	17	335	4,939	5,274
All Grains.....	8,022	254	8,276	288,861	297,137
PERCENTAGE OF TOTAL					
Wheat.....	2.5%	0.1%	2.6%	97.4%	100.0%
Oats.....	1.1	*	1.1	98.9	100.0
Barley.....	4.0	0.1	4.1	95.9	100.0
Rye.....	3.1	*	3.1	96.9	100.0
Flaxseed.....	0.9	*	0.9	99.1	100.0
Others.....	6.0	0.4	6.4	93.6	100.0
All Grains.....	2.7	0.1	2.8	97.2	100.0

*Less than 0.05%.

**Table E-5.—Number of Two Pound Samples "Subject to Grade and Dockage" Inspected
Crop Year 1957-58 Compared with the Crop Year 1956-57**

Point	1957-58	1956-57
Number of Samples		
Winnipeg.....	15,036	23,183
Calgary.....	1,754	2,148
Edmonton.....	1,633	1,913
Moose Jaw.....	386	228
Saskatoon.....	1,047	1,184
Lethbridge.....	550	1,647
Medicine Hat.....	21	60
Totals.....	20,427	30,363

Table E-6.—Carlots Re-inspected, Crop Year 1957-58

Point	In- spected	Re-in- spected	Un- changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered
Number of Carlots							
Winnipeg.....	168,613	8,917	3,691	2,398	108	197	2,523
Calgary.....	57,542	5,310	2,051	1,722	83	266	1,188
Edmonton.....	46,080	6,538	2,428	1,395	71	296	2,348
Saskatoon.....	8,071	157	132	25	—	—	—
Moose Jaw.....	3,897	228	202	22	4	—	—
Medicine Hat.....	1,958	86	42	27	17	—	—
Lethbridge.....	385	396	395	1	—	—	—
Vancouver.....	649	23	15	8	—	—	—
Churchill.....	9,942	—	—	—	—	—	—
Totals.....	297,137	21,655	8,956	5,598	283	759	6,059

TRADE AND COMMERCE

Table E-6.—Carlots Re-inspected, Crop Year 1957-58—Continued

Point	In-spected	Re-in-spected	Un-changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered
		Percentage of Re-inspections					
	%	%	%	%	%	%	%
Winnipeg.....	—	100	41.4	26.9	1.2	2.2	28.3
Calgary.....	—	100	38.6	32.4	1.6	5.0	22.4
Edmonton.....	—	100	37.1	21.4	1.1	4.5	35.9
Saskatoon.....	—	100	84.1	15.9	—	—	—
Moose Jaw.....	—	100	88.6	9.6	1.8	—	—
Medicine Hat.....	—	100	48.8	31.4	19.8	—	—
Lethbridge.....	—	100	99.7	0.3	—	—	—
Vancouver.....	—	100	65.2	34.8	—	—	—
Churchill.....	—	100	—	—	—	—	—
Totals.....	—	100	41.4	25.8	1.3	3.5	28.0
		Percentage of Total Inspections					
	%	%	%	%	%	%	%
Winnipeg.....	100	5.3	2.2	1.4	0.1	0.1	1.5
Calgary.....	100	9.3	3.6	3.0	0.1	0.5	2.1
Edmonton.....	100	14.2	5.3	3.0	0.2	0.6	5.1
Saskatoon.....	100	1.9	1.6	0.3	—	—	—
Moose Jaw.....	100	5.9	5.2	0.6	0.1	—	—
Medicine Hat.....	100	4.4	2.1	1.4	0.9	—	—
Lethbridge.....	100	2.9	2.6	0.3	—	—	—
Vancouver.....	100	3.5	2.3	1.2	—	—	—
Churchill.....	100	—	—	—	—	—	—
Totals.....	100	7.3	3.0	1.9	0.1	0.3	2.0

Table E-7.—Summary of Carlot Inspections Appealed, Crop Year 1957-58

Item	Winnipeg		Edmonton		Calgary		Total	
	Cars	Percent	Cars	Percent	Cars	Percent	Cars	Percent
Left as graded.....	501	94.9	455	85.7	643	90.3	1,599	90.3
Grades Raised.....	26	4.9	73	13.7	59	8.3	158	8.9
Grades Lowered.....	1	0.2	3	0.6	10	1.4	14	0.8
Totals.....	528	100.0	531	100.0	712	100.0	1,771	100.0
Total Cars Inspected.....							297,137	100.00
Total Appeals.....							1,771	0.59
Total Grades Changed.....							172	.05

Table E-8.—Vessel Shipments Inspected, Crop Year 1957-58

Grain	Fort William and Port Arthur	Vancouver	Victoria	Prince Rupert	Churchill	Total
	bu.	bu.	bu.	bu.	bu.	bu.
Wheat.....	177,063,935	129,887,849	2,170,410	—	18,290,685	327,412,879
Oats.....	52,184,398	2,256,692	—	—	56,750	54,497,840
Barley.....	74,464,388	19,702,692	—	10,562,860	—	104,729,940
Rye.....	4,602,519	1,358,838	—	—	—	5,961,357
Flaxseed.....	8,160,125	5,294,015	708,811	—	—	14,162,951
Buckwheat.....	91,730	—	—	—	—	91,730
*Sample Grain.....	293,627	—	—	—	—	293,627
*Screenings.....	3,167,895	140,582	—	—	137,000	3,445,477
*Canada Rapeseed.....	—	4,381,254	913,472	—	—	5,294,726
*Mustard Seed.....	—	705,859	—	—	—	705,859
*U.S.A. Mustard Seed.....	—	—	—	—	—	—
Mixed Grain.....	23,874	—	—	—	—	23,874
**Safflower Seed.....	—	111,733	—	—	—	111,733
Totals.....	320,052,491	163,839,514	3,792,693	10,562,860	18,484,435	516,731,993

*In bushels of 50 pounds.

**In bushels of 45 pounds.

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Table E-9.—Carlot Shipments ex Terminal Elevators Inspected, Crop Year 1957-58

Grain	Winnipeg	Fort William and Port Arthur	Calgary	Edmonton	Moose Jaw
		Number of Carlots			
Wheat.....	693	1,021	526	261	673
Oats.....	361	2,261	22	172	154
Barley.....	308	1,136	990	44	16
Flaxseed.....	25	1,111	3	35	15
Rye.....	4	77	10	1	1
Mixed Grain.....	91	—	3	1	5
Corn.....	1	—	—	—	—
Buckwheat.....	1	29	—	—	—
Peas.....	60	—	—	—	—
Rapeseed.....	88	27	137	522	—
Screenings.....	351	3,790	203	28	77
Sample Grain.....	—	61	—	—	—
Totals.....	1,983	9,513	1,894	1,064	941

Grain	Saskatoon	Lethbridge	Medicine Hat	Vancouver, Victoria and Prince Rupert	Churchill
Wheat.....	774	70	2	598	—
Oats.....	95	4	3	292	—
Barley.....	8	1	—	154	—
Flaxseed.....	—	—	92	1	—
Rye.....	48	—	—	2	—
Mixed Grain.....	—	—	—	—	—
Corn.....	—	—	—	—	—
Buckwheat.....	—	—	—	—	—
Peas.....	—	—	—	—	—
Rapeseed.....	912	—	—	—	—
Mustard Seed.....	—	—	—	—	—
Screenings.....	672	5	1	1,789	48
Safflower Seed.....	—	—	—	1	—
Totals.....	2,509	80	98	2,837	48

EASTERN DIVISION

Table E-10.—Carlot Inspections Eastern Grain, Crop Year 1957-58, by Grains and Points

Grain	Montreal	Toronto	Chatham	Total
		Carlots		
Wheat.....	107	454	2,302	2,863
Oats.....	—	10	19	29
Barley.....	1	4	204	209
Rye.....	—	—	43	43
Buckwheat.....	—	—	7	7
Corn.....	—	6	1,981	1,987
Beans.....	—	—	211	211
Soybeans.....	3	272	1,563	1,838
Totals.....	111	746	6,330	7,187

Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1957-58, by Grains, Grades and Points

Grade	Montreal	Toronto	Chatham	Total
	Carlots			

WHEAT				
1 Canada Eastern White Winter.....	—	23	410	433
2 Canada Eastern White Winter.....	107	291	936	1,334
3 Canada Eastern White Winter.....	—	26	119	145
4 Canada Eastern White Winter.....	—	1	3	4
5 Canada Eastern White Winter.....	—	—	1	1
1 Canada Eastern Mixed Winter.....	—	—	59	59
2 Canada Eastern Mixed Winter.....	—	1	73	74
3 Canada Eastern Mixed Winter.....	—	—	3	3
Tough.....	—	89	595	684
Smutty.....	—	4	12	16
Infested.....	—	13	70	83
Damp.....	—	1	—	1
Sample.....	—	5	14	19
Condemned.....	—	—	7	7
Totals, Wheat.....	107	454	2,302	2,863

OATS				
3 Canada Eastern.....	—	—	9	9
4 Canada Eastern.....	—	—	2	2
5 Canada Eastern.....	—	—	4	4
Mixed Feed.....	—	10	—	10
Tough.....	—	—	2	2
Sample.....	—	—	2	2
Totals, Oats.....	—	10	19	29

BARLEY				
3 Canada Eastern Six Row.....	—	2	116	118
4 Canada Eastern.....	1	—	54	55
5 Canada Eastern.....	—	1	4	5
Tough.....	—	—	25	25
Damp.....	—	—	1	1
Infested.....	—	—	2	2
Sample.....	—	—	2	2
Condemned.....	—	1	—	1
Totals, Barley.....	1	4	204	209

RYE				
2 Canada Eastern.....	—	—	10	10
3 Canada Eastern.....	—	—	11	11
4 Canada Eastern.....	—	—	1	1
Tough.....	—	—	18	18
Damp.....	—	—	1	1
Ergoty.....	—	—	1	1
Sample.....	—	—	1	1
Totals, Rye.....	—	—	43	43

BUCKWHEAT				
Tough.....	—	—	7	7
Totals, Buckwheat.....	—	—	7	7

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**Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1957-58, By Grains,
Grades and Points—Concluded**

Grade	Montreal	Toronto	Chatham	Total
CORN				
Extra Dry 1 Canada Eastern Yellow.....	—	1	327	328
1 Canada Eastern Yellow.....	—	—	491	491
Extra Dry 2 Canada Eastern Yellow.....	—	—	121	121
2 Canada Eastern Yellow.....	—	—	242	242
Extra Dry 3 Canada Eastern Yellow.....	—	2	20	22
3 Canada Eastern Yellow.....	—	—	67	67
Extra Dry 4 Canada Eastern Yellow.....	—	2	5	7
4 Canada Eastern Yellow.....	—	—	7	7
Extra Dry 5 Canada Eastern.....	—	—	4	4
5 Canada Eastern Yellow.....	—	1	2	3
Tough.....	—	—	204	204
Damp.....	—	—	202	202
Moist.....	—	—	180	180
Wet.....	—	—	106	106
Infested.....	—	—	1	1
Sample.....	—	—	2	2
Totals, Corn.....	—	6	1,981	1,987
BEANS				
1 Canada Eastern Pea.....	—	—	55	55
2 Canada Eastern Pea.....	—	—	96	96
3 Canada Eastern Pea.....	—	—	39	39
Tough.....	—	—	21	21
Totals, Beans.....	—	—	211	211
SOYBEANS				
1 Canada Yellow.....	—	127	835	962
2 Canada Yellow.....	3	105	258	366
3 Canada Yellow.....	—	11	122	133
4 Canada Yellow.....	—	—	3	3
Tough.....	—	25	237	262
Damp.....	—	4	86	90
Moist.....	—	—	21	21
Sample.....	—	—	1	1
Totals, Soybeans.....	3	272	1,563	1,838
Totals, All Grains.....	111	746	6,330	7,187

Table E-12.—Cargo Inspections Eastern Grain, Crop Year 1957-58

Grain	St. John and Halifax	Montreal	Toronto	Chatham	Total
Wheat.....	bu. 18,643	bu. 747,330	bu. 259,226	bu. 1,572,985	bu. 2,598,184
Corn.....	—	—	—	1,291,753	1,291,753
Soybeans.....	28,560	56,000	346,848	2,504,221	2,935,629
Totals.....	47,203	803,330	606,074	5,368,959	6,825,566

TRADE AND COMMERCE

Table E-12A.—Cargo Inspections, Western Grain, Crop Year 1957-58

Grain	St. John and Halifax	Montreal	Toronto	Chatham	Total
Buckwheat.....	bu. 26,981	bu. —	bu. —	bu. —	bu. 26,981
Flaxseed.....	2,162,507	491,047	—	—	2,653,554
Peas.....	1,000	—	—	—	1,000
Totals.....	2,190,488	491,047	—	—	2,681,535

Table E-13.—Inspections, Eastern Grain in Bins or Warehouses, Crop Year 1957-58

Grain	Montreal	Toronto	Chatham	Total
Wheat.....	bu. 3,000	bu. —	bu. —	bu. 3,000
Oats.....	739,051	—	1,200	740,251
Rye.....	—	—	200	200
Buckwheat.....	—	—	1,800	1,800
Corn.....	—	—	292	292
Beans.....	—	—	126,178	126,178
Totals.....	742,051	—	129,670	871,721

Table E-14.—Inward and Export Cargoes Sampled and Grade Checked, Crop Year 1957-58

	Montreal	Sorel	Three Rivers	Quebec	Halifax and St. John	Total
EASTERN GRAIN	bu.	bu.	bu.	bu.	bu.	bu.
Inward.....	4,065,642	—	—	—	—	4,065,642
Export.....	4,016,712	—	—	—	394,412	4,411,124
WESTERN GRAIN						
Inward.....	70,720,915	114,526	—	—	—	70,835,441
Export.....	76,695,318	15,702,309	12,916,280	11,272,903	28,452,210	145,039,020
U.S. GRAIN						
Inward.....	6,521,105	—	—	—	—	6,521,105
Export.....	5,878,753	—	—	—	—	5,878,753
Totals.....	167,898,445	15,816,835	12,916,280	11,272,903	28,846,622	236,751,085

Table E-15.—Grain Sampled but not Inspected, Crop Year 1957-58

	Montreal	Toronto and Chatham	Sorel, Three Rivers and Quebec	Halifax and St. John	Total
EASTERN GRAIN					
Carlots.....	12	32	—	—	44
Inward Cargoes (bu.).....	300,083	89,667	—	—	389,750
Outward Cargoes (bu.).....	363,498	—	—	—	363,498
Bin Lots (bu.).....	116,447	11,000	—	—	127,447
WESTERN GRAIN					
Carlots.....	11	17	—	—	28
Inward Cargoes (bu.).....	129,665	—	97,301	—	226,966
Outward Cargoes (bu.).....	4,937,063	—	2,464,508	791,146	8,192,717
Bin Lots (bu.).....	565,682	—	1,958	2,955	570,595
U.S.A. GRAIN					
Carlots.....	88	—	—	—	88
Inward Cargoes (bu.).....	1,275,304	—	—	—	1,275,304
Outward Cargoes (bu.).....	124,860	—	—	—	124,860
Bin Lots (bu.).....	115,029	—	—	—	115,029
Totals—Cars.....	111	49	—	—	160
—Bushels.....	7,927,631	100,667	2,563,767	794,101	11,386,166

APPENDIX F

Grain Weighing Branch

J. J. Manson, Chief Grain Weighman

Under the provisions of Sections 33 and 124 of the Canada Grain Act, all grain received into or shipped from licensed terminal elevators is weighed under the supervision of the Board's weighing staffs. Weighing services are also provided at licensed mill elevators.

During the Crop Year 1957-58 weighing services were provided at forty-five semi-public and private terminal elevators and when required, at twenty-nine mill elevators in the Western Division.

All scales and the equipment for transferring grain to scales on receipt and from scales for shipment in all licensed terminal elevators and serviced mill elevators were regularly inspected during the crop year under provision of Section 92 of the Act.

In accordance with the special arrangement with the Standards Branch of the Department of Trade and Commerce, all scales in licensed terminal and eastern elevators were inspected, verified and stamped by the Board's Scale Inspector acting as an inspector under the Weights and Measures Act. A semi-annual inspection was also made of all scales at terminal elevators to ascertain if scales were maintaining their accuracy. Special inspections were made when any doubt arose as to the accuracy of any particular scale.

Attention has been given to alterations in elevators and dust control installations to ensure that such changes and installations do not affect the accuracy of the weighing of grain received at or shipped from these elevators.

During the crop year under review, 299,976 car lots of grain were weighed on receipt at terminal and mill elevators in the Western Division and of these car lots, 52,785 or 17.6% were reported leaking and 5,787 or 1.9% were without seals or had defective seals. There was also a total of 21,806 cars weighed out of terminals.

This Branch maintained a close checking of reported outturns at eastern elevators of cargoes loaded at Lakehead terminals, and investigations were made in cases of reported excessive shortages with a view to assessing the liability in cases where such could be established.

Under provisions of Sections 139 and 140 of the Canada Grain Act, weighovers were conducted at twenty-four terminal elevators and twenty-one eastern elevators. Results of weighovers were submitted to the Board for comparison with outstanding warehouse receipts and preparation of official statements. The Board found it necessary to defer several terminal and eastern elevator audits due to heavy grain stocks in store.

The following tables summarize the grain weighed and other information relating to the work of this Branch.

TRADE AND COMMERCE

Table F-1.—Gross Quantities of All Grains Weighed at Terminal Elevators in the Western Division during 1957-58 Crop Year

Point	Wheat	Oats	Barley	Rye	Flaxseed	Canadian Corn	Canadian Buckwheat	Miscellaneous
	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lbs.
RECEIPTS								
Fort William-Port Arthur	181,171,400	56,235,480	81,728,528	5,462,920	12,286,240	—	124,680	67,246,704
Vancouver-New Westminster	131,783,459	2,006,643	20,226,622	1,474,989	6,395,806	—	—	281,747,361
Victoria	2,093,389	791	2,940	—	857,765	—	—	45,608,960
Prince Rupert	—	—	10,540,221	—	—	—	—	—
Churchill	17,480,155	1,023	—	—	—	—	—	13,524
Calgary	377,206	5,528	2,116,310	—	2,658	—	—	15,948,400
Edmonton	159,989	275,786	76,668	1,305	2,055	2,219	—	46,870,270
Lethbridge	361,322	—	2,492	—	—	—	—	—
Moose Jaw	9,048	244,804	—	—	1,430	—	—	—
Saskatoon	—	116,551	—	—	90,407	—	—	122,146,230
North Transcona	537,712	46,036	56,068	4,120	2,000	—	—	2,211,235
Total Receipts	333,973,680	58,932,642	114,749,849	6,943,334	19,638,361	2,219	124,680	581,792,684
SHIPMENTS								
Fort William-Port Arthur	178,429,990	57,207,055	79,802,785	4,989,345	10,361,790	—	156,740	450,292,897
Vancouver-New Westminster	128,209,973	3,164,151	19,971,031	1,358,870	5,294,725	—	—	259,522,673
Victoria	2,173,766	29,087	2,500	—	708,812	—	—	45,673,630
Prince Rupert	—	—	10,562,860	—	—	—	—	—
Churchill	18,161,046	56,750	—	—	—	—	—	—
Calgary	906,842	7,401	1,842,750	24,152	5,629	—	—	11,862,730
Edmonton	439,287	276,971	82,459	1,305	3,051	9,000	—	13,821,420
Lethbridge	136,004	8,160	2,492	—	17	—	—	40,983,020
Moose Jaw	9,048	244,680	—	—	1,430	—	—	—
Saskatoon	237,500	118,783	—	—	90,306	—	—	101,436,810
North Transcona	917,447	43,745	55,894	4,120	2,000	—	—	938,830
Total Shipments	329,620,903	61,156,783	112,322,771	6,377,792	16,467,760	9,000	156,740	924,532,010

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Table F-2.—Number of Cars Leaking and Cars with Missing Seals at the Lakehead, at Other Points and at Winnipeg Yards, by Railways, for the Crop Year 1957-58

Destination	Cars Leaking		Missing Seals	
	C.N.R.	C.P.R.	C.N.R.	C.P.R.
Lakehead Elevators and Yards.....	18,210	17,797	1,638	1,903
Other Points.....	7,365	9,413	1,242	1,004
Totals.....	25,575	27,210	2,880	2,907
Totals, Both Railways.....	52,785		5,787	
Winnipeg Yards.....	913	1,045	476	530

Table F-3.—Number of Cars Weighed at all Points and Percentage of such Cars found Leaking or with Defective Seals, Crop Years 1956-57 and 1957-58

	Number		Percentage of Total	
	1957-58	1956-57	1957-58	1956-57
Cars Weighed In.....	299,976	305,276	100.0	100.0
Inward Cars Leaking.....	52,785	56,141	17.6	18.3
Inward Cars with Missing or Defective Seals.....	5,787	7,877	1.9	2.5
Cars Weighed Out.....	21,806	30,171	—	—

Table F-4.—Average Reported Outturn Shortages on Vessel Shipments of Grain from Fort William-Port Arthur to Canadian and United States Ports during the 1957-58 Crop Year

Grain	Bushels Shipped	Shortage in Pounds per 1,000 Bushels	
		1957-58	1956-57
CANADIAN PORTS			
Wheat.....	150,530,192	31.43	31.1
Durum Wheat.....	19,206,684	28.28	15.4
Oats.....	36,588,738	22.97	21.1
Barley.....	53,129,406	24.11	28.7
Rye.....	1,570,602	13.55	46.9
Flaxseed.....	8,160,126	26.59	21.3
Buckwheat.....	91,730	30.26	51.1
Mixed Grain (in lbs.).....	1,193,710	1.47 lbs. per 1,000 lbs.	.4 lbs. per 1,000 lbs.
Sample Grain (in lbs.).....	18,183,890	.55 lbs. per 1,000 lbs.	.8 lbs. per 1,000 lbs.
Screenings (in tons).....	43,560	1.39 lbs. per ton	1.1 lbs. per ton
UNITED STATES PORTS			
Wheat.....	6,528,538	82.47	63.7
Durum Wheat.....	44,097	55.91	—
Oats.....	15,146,309	50.11	53.1
Barley.....	21,441,792	39.83	43.6
Rye.....	3,201,175	48.21	36.1
Flaxseed.....	—	—	124.0
Buckwheat.....	—	—	111.2
Screenings (in tons).....	35,637	—	—
TOTAL CANADIAN AND UNITED STATES PORTS			
Wheat.....	157,058,730	33.55	32.3
Durum Wheat.....	19,250,781	28.35	15.4
Oats.....	51,735,047	30.92	28.2
Barley.....	74,571,198	28.63	33.1
Rye.....	4,771,777	37.96	39.0
Flaxseed.....	8,160,126	26.59	21.6
Buckwheat.....	91,730	30.26	64.7
Mixed Grain (in lbs.).....	1,193,710	1.47 lbs. per 1,000 lbs.	.4 lbs. per 1,000 lbs.
Sample Grain (in lbs.).....	18,183,890	.55 lbs. per 1,000 lbs.	.8 lbs. per 1,000 lbs.
Screenings (in tons).....	79,197	.77 lbs. per ton	.5 lbs. per ton

APPENDIX G

Statistics Branch

E. E. BAXTER, Chief Statistician

The Statistics Branch receives reports from all elevators licensed under the Canada Grain Act and from these returns compiles and publishes basic statistics relating to the storage and handling of grain within the Canadian elevator system. It prepares audit statements of the operations of all terminal and eastern elevators, verifies the insurance carried on grain stocks, supplies for review by the Board a detailed analysis of country and terminal grain handlings and co-operates with other Board offices in the maintenance of detailed records of principal operations.

There were no major changes in the general statistical bulletins released by this office during 1957-58. The distribution of these publications continued to expand and the facilities of the local plant of the Queen's Printer were utilized to improve the service and reduce the costs of these operations. The demand for special statistics from the Grain Trade, and government and other offices registered a further increase as indication of the wider adaption of these statistics to operational analyses.

Continued close co-operation with other offices of the Board made possible further integration of records through this Branch's machine accounting unit and thereby facilitated the preparation of special reports for Board review. Parallel steps were taken towards the integration of records and reports in electronic machine card accounting form with those grain companies and organizations using these media.

The records and facilities of the office were made available to the Box Car Distribution Inquiry. The tabulating and research sections of the Branch prepared a wide range of detailed statements of country and terminal elevator capacities, stocks, handlings and inter-related ratios for this investigation. The office also supplied historical records of their own operations for certain individual companies and groups for use in their submissions to the Inquiry.

The grain audit statements prepared in connection with elevator stock weighups during the year carried out by the Weighing and Inspection Branches of the Board under authority of Sections 139 and 140 of the Canada Grain Act are summarized in the tables G12-14 inclusive of this appendix. Additional statistics and analyses relating to the operations of these elevators were prepared for the information of the Board in their examination of these audits.

The responsibility of the Branch under Section 21 of the Act was met by the maintenance within the office of grain price records for the principal grain markets and the preparation therefrom of regular statements of price statistics.

In compliance with Section 102 of the Canada Grain Act the office continued to examine and check grain insurance policies and reports filed by elevator licensees and thereby ensured adequate protection to owners of stored grain.

BOARD OF GRAIN COMMISSIONERS

Vessel charter confirmations submitted by shippers with respect to all lake grain cargoes shipped from Fort William-Port Arthur during the 1958 season of navigation were examined by this office in accordance with our responsibilities under the Inland Water Freight Rates Act. These reports covered the 1,123 vessels that carried 322 million bushels of the five principal grains during the 1958 season which opened on April 18 and closed December 13. Rates on these cargoes opened and continued for the season at the maximum level of charges allowable under this Act.

The operations of the 5,348 country elevators licensed for the 1957-58 season were reported in annual returns filed by the companies. These reports were examined and tabulated for statistical records and special analyses. A further 1,867 reports were received on a continuing basis from the operating companies covering those country elevator weighups completed over the crop season. Special reports and tabulations were made from these statements for the use of the Board and the Assistant Commissioners in their review of the individual agent's operations.

The principal general grain statistics for the 1957-58 crop year and the 1958 season of navigation are summarized in the tables which follow. More complete details of Canada's grain trade are published in the Branch's export release—Canadian Grain Exports 1957-58, the various regular and periodical bulletins of the Branch, and in the "Grain Trade of Canada" released jointly by this office and the Agriculture Division of the Dominion Bureau of Statistics.

Table G-1.—Supply and Disposition of Canadian Grain, Crop Year 1957-58

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
SUPPLY					
Carry-over July 31st, 1957.....	729,545,846	226,215,327	142,778,542	14,159,691	7,580,565
Production in 1957.....	370,508,000	380,599,000	215,993,000	8,539,000	19,179,000
Total Supply.....	1,100,053,846	606,814,327	358,771,542	22,698,691	26,759,565
DISPOSITION					
Exported Overseas.....	308,427,344	4,313,944	53,662,300	2,293,618	13,850,129
Exported to the U.S.A.....	7,166,086	21,580,991	21,457,508	3,151,985	—
Consumed in Canada.....	173,006,675	426,003,758	165,486,444	7,191,135	7,257,420
Total Disposition.....	488,600,105	451,898,693	240,606,252	12,636,738	21,107,549
CARRY-OVER (July 31st, 1958)					
On Farms (estimated).....	203,900,000	108,000,000	57,500,000	6,030,000	930,000
In Country, Private Terminal and Mill Elevators.....	244,129,561	32,912,414	37,568,007	1,762,496	1,044,571
In Semi-Public Terminal Elevators.....	71,454,654	5,596,595	16,000,285	1,395,120	2,735,134
In Store at and Afloat to Eastern Elevators.....	68,739,805	4,995,855	5,534,532	294,039	497,363
In Eastern Flour Mills.....	2,567,859	177,324	15,251	—	—
In Transit by Rail—Eastern and Western Divisions.....	20,661,862	3,233,446	1,018,221	515,816	444,948
In Store and in Transit to the United States.....	—	—	528,994	64,482	—
Total in Store July 31st, 1958	611,453,741	154,915,634	118,165,290	10,061,953	5,652,016

TRADE AND COMMERCE

**Table G-2.—Production and Producers' Marketings in Western Canada,
by Provinces, Crop Year 1957-58**

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
PRODUCTION (DBS estimate)					
Manitoba.....	45,000,000	58,000,000	33,000,000	1,200,000	3,500,000
Saskatchewan.....	211,000,000	80,000,000	80,000,000	3,200,000	10,500,000
Alberta and British Columbia	94,031,000	100,616,000	98,056,000	1,951,000	5,016,000
Totals.....	350,031,000	238,616,000	211,056,000	6,351,000	19,016,000
PRODUCERS' MARKETINGS					
(a) At Country Elevators					
Manitoba.....	41,396,282	19,226,216	19,565,652	986,314	2,813,311
Saskatchewan.....	243,952,159	23,823,076	51,403,243	4,063,017	8,310,557
Alberta.....	88,827,346	14,310,546	45,499,201	2,252,826	3,653,093
Totals.....	374,175,787	57,359,838	116,468,096	7,302,157	14,776,961
(b) At Interior Semi-Public Terminals					
Manitoba.....	23,333	27,801	17,828	—	—
Saskatchewan.....	—	—	—	—	—
Alberta.....	346,824	275,041	66,610	—	883
Totals.....	370,157	302,842	84,438	—	883
(c) At Interior Private and Mill Elevators					
Manitoba.....	220,920	102,225	28,687	6,293	84,534
Saskatchewan.....	1,962,911	90,229	105,068	1,128	112,443
Alberta.....	1,392,483	406,943	130,603	79,393	305,269
Totals.....	3,576,314	599,397	264,358	86,814	502,246
(d) Loaded over Platforms					
Manitoba.....	1,747	5,520	813	—	—
Saskatchewan.....	38,113	2,083	7,455	—	11,025
Alberta.....	29,991	2,176	40,692	6,308	4,390
Totals.....	69,851	9,779	48,960	6,308	15,415
Total Producers' Marketings					
Manitoba.....	41,642,282	19,361,762	19,612,980	992,607	2,897,845
Saskatchewan.....	245,953,183	23,915,388	51,515,766	4,064,145	8,434,025
Alberta.....	90,596,644	14,994,706	45,737,106	2,338,527	3,963,635
Totals.....	378,192,109	58,271,856	116,865,852	7,395,279	15,295,505

BOARD OF GRAIN COMMISSIONERS

Table G-3.—Receipts and Shipments of Canadian Grain at Terminal Elevators, Crop Year 1957-58

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Fort William-Port Arthur—					
Receipts.....	176,412,251	54,971,441	79,296,717	5,241,024	10,097,681
Shipments.....	178,206,775	56,769,572	78,665,353	4,932,552	10,164,399
Vancouver-New Westminster—					
Receipts.....	128,107,099	1,983,524	19,979,229	1,430,111	5,448,604
Shipments.....	128,209,957	3,164,151	19,971,030	1,358,870	5,224,300
Victoria—					
Receipts.....	2,030,741	791	2,940	—	702,400
Shipments.....	2,173,766	29,087	2,500	—	701,740
Prince Rupert—					
Receipts.....	—	—	10,357,023	—	—
Shipments.....	—	—	10,562,860	—	—
Churchill—					
Receipts.....	17,042,058	1,023	—	—	—
Shipments.....	18,395,046	56,750	—	—	—
Transcona—					
Receipts.....	527,304	45,765	55,549	4,120	2,000
Shipments.....	917,419	43,712	55,894	4,120	2,000
Calgary—					
Receipts.....	376,725	5,528	2,115,414	—	2,482
Shipments.....	906,842	7,401	1,842,749	24,151	5,579
Edmonton—					
Receipts.....	156,239	275,041	76,484	1,305	2,055
Shipments.....	439,287	276,971	82,459	1,305	3,039
Lethbridge—					
Receipts.....	352,324	—	2,492	—	—
Shipments.....	136,004	8,160	2,492	—	17
Moose Jaw—					
Receipts.....	9,048	244,680	—	—	1,430
Shipments.....	9,048	244,680	—	—	1,430
Saskatoon—					
Receipts.....	—	116,489	—	—	90,306
Shipments.....	237,500	118,783	—	—	90,306
Total Receipts.....	325,013,789	57,644,282	111,885,848	6,676,560	16,346,958
Total Shipments.....	329,631,644	60,719,267	111,185,337	6,320,998	16,192,810

Table G-4.—Shipments of Foreign Grain from Canadian Elevators into Canadian Consumer Channels, Crop Year 1957-58

From	United States Corn	United States Soybeans	United States Rice
	bu.	bu.	bu.
Eastern Elevators.....	4,430,303	1,335,845	21,552
Fort William-Port Arthur.....	—	—	—
Interior Terminals.....	—	—	—
Interior Private and Mill Elevators.....	990,356	—	—
Pacific Coast Elevators.....	—	—	—

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Table G-5.—Primary Receipts and Shipments at Eastern Elevators, Crop Year 1957-58

	Receipts	Shipments
	bu.	bu.
Canadian Grain—		
Wheat.....	173,850,365	177,529,028
Oats.....	37,406,722	37,150,660
Barley.....	48,377,821	48,264,225
Rye.....	1,781,833	1,888,363
Flaxseed.....	10,637,341	10,727,266
Corn.....	2,866,669	3,141,252
Soybeans.....	3,294,043	3,015,457
Buckwheat.....	238,952	342,765
Peas.....	299,172	299,490
Rapeseed (lbs.).....	52,999,680	53,512,210
Mixed Grain (lbs.).....	1,191,950	1,268,530
Sample Grain (lbs.).....	18,500,970	21,143,971
United States Grain—		
Flaxseed.....	6,923,881	7,036,281
Corn.....	5,233,116	5,494,768
Soybeans.....	1,337,883	1,335,845
Rice.....	21,552	21,552
Buckwheat.....	14,773	14,773

Table G-6.—Supply and Disposition of Canadian Grain in United States Positions, Crop Year 1957-58

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
SUPPLY					
In Store and in Transit U.S.A.....	78,752	104,531	—	18,000	—
Receipts direct from Canada.....	7,653,152	21,476,460	21,633,294	3,198,467	—
Total Supply.....	7,731,904	21,580,991	21,633,294	3,216,467	—
DISPOSITION					
Exported.....	—	—	—	—	—
Returned to Canada.....	565,818	—	—	—	—
Used Domestically.....	7,166,086	21,580,991	21,457,508	3,151,985	—
Total Disposition.....	7,731,904	21,580,991	21,457,508	3,151,985	—
In Store and in Transit, July 31, 1958	—	—	175,786	64,482	—

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Table G-7.—Exports of Canadian Wheat, by Seaboard Sectors, by Months, Crop Year 1957-58

	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via Fort William- Port Arthur Direct	Via United States Atlantic Ports	United States Imports ¹		Total All Wheat	Wheat Flour ²	Total Wheat and Wheat Flour
	bu.	bu.	bu.	bu.	bu.	For Domestic Use	Milling in Bond	bu.	bu.	bu.
1957										
August.....	9,948,729	6,495,289	7,869,393	—	—	335,563	66,950	24,715,924	2,476,674	27,192,598
September.....	10,959,284	3,940,161	5,759,933	—	—	441,766	65,015	21,166,159	2,739,990	23,906,149
October.....	8,832,578	5,450,301	2,947,880	—	—	619,578	64,231	17,914,568	3,477,200	21,391,768
November.....	14,316,062	12,640,919	—	—	—	738,690	210,424	27,906,095	2,869,604	30,775,699
December.....	11,553,435	7,655,592	—	—	—	610,286	80,291	19,899,604	3,920,475	23,820,079
1958										
January.....	12,535,581	6,064,492	—	—	—	242,750	—	18,842,823	3,506,741	22,349,564
February.....	8,804,057	9,695,151	—	—	—	63,288	—	18,562,496	2,302,896	20,865,392
March.....	9,625,910	9,436,323	—	—	—	216,147	164,720	19,443,100	3,837,400	23,280,500
April.....	11,144,239	11,261,331	—	—	—	381,664	—	22,787,234	3,067,770	25,855,004
May.....	11,286,073	22,132,538	—	—	—	732,200	1,115,384	35,266,195	4,868,037	40,134,232
June.....	11,453,288	14,671,783	—	—	—	751,088	28,909	26,905,068	3,911,491	30,816,559
July.....	9,208,431	10,876,573	1,817,840	143,405	—	237,142	—	22,283,391	2,922,495	25,205,886
Total Crop Year 1957-58.....	129,667,667	120,320,453	18,395,046	143,405	—	5,370,162	1,795,924	275,692,657	39,900,773	315,593,430
Total Crop Year 1956-57.....	104,119,211	101,535,965	16,250,320	—	480,137	4,757,417	1,114,084	228,257,134	33,539,591³	261,796,725
5-Year Average 1952-53 to 1956-57.....	100,080,768	126,427,626	12,183,118	73,664	923,547	7,432,143	2,196,562	249,317,428	43,381,626	292,699,054

¹Compiled from returns of Canadian elevator licensees and shippers and advice from American grain correspondents.

²Canadian Customs returns converted to bushels—unadjusted for time lag.

³Revised—adjusted to remove effect of time lag in reports made by the Customs.

TRADE AND COMMERCE

Table G-8.—Overseas Exports of Canadian Grain, by Seaboard Sectors, by Grades, Crop Year 1957-58

Grades	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports*	Via Churchill	Via United States Atlantic Ports	Total
	bu.	bu.	bu.	bu.	bu.
WHEAT—					
1 Manitoba Northern.....	254,095	1,322,576	9,333	—	1,586,004
2 Manitoba Northern.....	30,877,717	36,926,410	10,207,957	—	78,012,084
3 Manitoba Northern.....	51,005,568	27,876,869	3,931,500	—	82,813,937
4 Manitoba Northern.....	26,831,995	22,015,038	421,944	—	49,268,977
No. 5.....	15,038,652	14,146,912	3,574,673	—	32,760,237
No. 6.....	4,718,250	183,759	—	—	4,902,009
3 C.W. Garnet.....	25,323	—	—	—	25,323
1 Alberta Red Winter.....	34,999	—	—	—	34,999
2 Alberta Winter.....	127,022	—	—	—	127,022
3 Alberta Winter.....	39,515	—	—	—	39,515
Other Western.....	714,531	2,930,320	249,639	—	3,894,490
Eastern.....	—	2,647,561	—	—	2,647,561
2 C.W. Amber Durum.....	—	2,381,682	—	—	2,381,682
3 C.W. Amber Durum.....	—	1,603,188	—	—	1,603,188
Extra 4 C.W. Amber Durum.....	—	5,189,878	—	—	5,189,878
4 C.W. Amber Durum.....	—	3,032,319	—	—	3,032,319
Other Durum.....	—	207,346	—	—	207,346
Totals.....	129,667,667	120,463,858	18,395,046	—	268,526,571
OATS—					
Extra 3 C.W.....	16,471	—	—	—	16,471
3 C.W.....	32,941	977,244	—	—	1,010,185
Extra 1 Feed.....	476,501	78,729	—	—	555,230
1 Feed.....	983,342	279,338	—	—	1,262,680
Mixed Feed.....	747,437	205,110	56,750	—	1,009,297
Eastern.....	—	460,081	—	—	460,081
Totals.....	2,256,692	2,000,502	56,750	—	4,313,944
BARLEY—					
3 C.W. Six Row.....	5,869,314	1,405,328	—	—	7,274,642
4 C.W. Six Row.....	—	295,995	—	—	295,995
3 C.W. Two Row.....	10,168,693	209,011	—	—	10,377,704
1 Feed.....	12,166,840	2,574,160	—	—	14,741,000
2 Feed.....	2,068,732	18,830,853	—	—	20,899,585
Other Western.....	—	73,374	—	—	73,374
Totals.....	30,273,579	23,388,721	—	—	53,662,300
RYE—					
2 C.W.....	1,085,279	256,000	—	—	1,341,279
3 C.W.....	269,341	682,998	—	—	952,339
Totals.....	1,354,620	938,998	—	—	2,293,618
FLAXSEED—					
1 C.W.....	4,543,394	4,646,763	—	—	9,190,157
2 C.W.....	1,459,433	2,959,438	—	—	4,418,871
3 C.W.....	—	41,101	—	—	41,101
Totals.....	6,002,827	7,647,302	—	—	13,650,129

*Includes grain shipped direct from Canadian Lake Ports.

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Table G-9.—Overseas Exports of Canadian Grain, by Ports, Crop Year 1957-58

Loaded at	Wheat (All varieties)	Oats	Barley	Rye	Flaxseed	Total All Grains
	bu.	bu.	bu.	bu.	bu.	bu.
Vancouver-New Westminster.....	127,497,256	2,256,692	19,710,719	1,354,620	5,293,715	156,113,002
Victoria.....	2,170,411	—	—	—	709,112	2,879,523
Prince Rupert.....	143,405	—	10,562,860	—	—	10,562,860
Fort William-Port Arthur Direct.....	32,328	—	275,899	—	—	419,304
Humberstone Direct.....	—	—	—	—	—	32,328
Kingston Direct.....	—	—	40,563	—	—	40,563
Prescott Direct.....	—	—	39,445	—	—	39,445
Montreal.....	55,515,065	1,671,309	17,486,330	928,873	5,138,019	80,739,596
Sorel.....	11,545,507	—	4,589,478	—	326,252	16,461,237
Three Rivers.....	13,890,366	230,427	—	—	10,349	14,131,142
Quebec.....	11,009,887	—	635,430	—	—	11,645,317
Saint John.....	1,028,855	—	—	—	—	1,028,855
West Saint John.....	14,283,738	98,766	309,936	10,125	2,152,188	16,854,753
Halifax.....	13,014,707	—	11,640	—	20,494	13,046,841
Churchill.....	18,395,046	56,750	—	—	—	18,451,796
Totals—Canadian Ports.....	268,526,571	4,313,944	53,662,300	2,293,618	13,650,129	342,446,562
U.S.A. Ports.....	—	—	—	—	—	—
Totals to Overseas.....	268,526,571	4,313,944	53,662,300	2,293,618	13,650,129	342,446,562
Wheat Flour.....	39,900,773	—	—	—	—	39,900,773
U.S.A. Imports ²	7,166,086	21,580,991	21,457,508	3,151,985	—	53,356,570
Grand Totals.....	315,593,430	25,894,935	75,119,808	5,445,603	13,650,129	435,703,905

¹Canadian Customs Returns—converted to bushels.

²Compiled from returns of Canadian Elevator licensees and shippers and advice from American grain correspondents.

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Table G-10.—Tough and Damp Grain Dried, by Storage Position, Crop Year 1957-58

	Artificial Drying			Natural Drying	Total
	Tough	Damp	Tough and Damp		
LAKEHEAD	bu.	bu.	bu.	bu.	bu.
Wheat.....	2,365	734	3,099	1,933,611	1,936,710
Durum Wheat.....	—	—	—	38,987	38,987
Oats.....	1,595	—	1,595	256,567	258,162
Barley.....	227	5,868	6,095	925,222	931,317
Rye.....	81	1,527	1,608	81,256	82,864
Flaxseed.....	7,540	3,093	10,633	30,089	40,722
Totals.....	11,808	11,222	23,030	3,265,732	3,288,762
PACIFIC COAST					
Wheat.....	121,104	63,643	184,747	5,480,597	5,665,344
Oats.....	65,778	13,200	78,978	157,897	236,875
Barley.....	946,082	64,344	1,010,426	2,234,730	3,245,156
Rye.....	—	—	—	10,926	10,926
Flaxseed.....	—	—	—	66,721	66,721
Totals.....	1,132,964	141,187	1,274,151	7,950,871	9,225,022
INTERIOR					
Wheat.....	—	—	—	41,303	41,303
Barley.....	—	1,411	1,411	—	1,411
Totals.....	—	1,411	1,411	41,303	42,714
CHURCHILL					
Wheat.....	—	—	—	36,261	36,261
Totals, All Positions	1,144,772	153,820	1,298,592	11,294,167	12,592,759

Table G-11.—Weighted Average Lake Freight Rates on Canadian Grain from Fort William-Port Arthur, Season of Navigation 1958

Port of Discharge	Wheat	Oats	Barley	Rye	Flaxseed
Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	6.038	5.015	5.320	5.5	—
Port Colborne.....	7.652	6.751	7.250	7.5	8.0
Toronto.....	8.064	7.25	7.521	—	8.519
Kingston.....	8.75	8.0	8.25	—	—
Prescott.....	9.0	8.25	8.5	—	—
Montreal (Direct).....	16.0	13.0	15.25	16.0	17.0
Montreal via Bay Ports.....	16.0	13.0	—	—	—
Montreal via Port Colborne.....	16.0	13.0	15.25	—	17.0
Montreal via Toronto.....	16.0	—	15.25	—	—
Montreal via Kingston.....	16.0	13.0	15.25	16.0	17.0
Montreal via Prescott.....	16.0	13.0	15.130	16.0	17.0
Sorel (Direct).....	16.0	13.0	15.25	—	—
Sorel via Bay Ports.....	16.0	—	—	—	—
Sorel via Port Colborne.....	16.0	13.0	15.25	—	17.0
Sorel via Prescott.....	16.0	13.0	15.25	—	—
Three Rivers via Bay Ports.....	16.0	—	—	—	—
Three Rivers via Port Colborne.....	16.0	13.0	—	—	—
Three Rivers via Toronto.....	16.0	13.0	15.25	—	17.0
Three Rivers via Kingston.....	16.0	13.0	—	—	—
Three Rivers via Prescott.....	16.0	—	15.25	—	17.0
Quebec (Direct).....	16.0	13.0	15.25	—	—
Quebec via Port Colborne.....	16.0	13.0	15.25	—	—
Quebec via Kingston.....	16.0	—	—	—	—
Quebec via Prescott.....	16.0	13.0	15.25	—	—
Buffalo.....	8.110	6.049	7.899	7.895	—
Chicago.....	7.507	—	5.5	6.878	—
Detroit.....	—	—	6.622	—	—
Duluth-Superior.....	6.199	—	5.424	5.760	—
Huron.....	6.5	5.5	—	—	—
Manitowoc.....	—	—	6.179	—	—
Milwaukee.....	—	—	6.501	—	—

Note.—Rates originally quoted in United States Funds have been converted to Canadian currency at the prevailing rates of exchange.

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Table G-12.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC TERMINAL Elevators, Crop Year 1957-58

Date of Weighover	Licensee	EXCESS				DEFICIENCY			
		No. 1 Manitoba Hard	No. 1 Manitoba Northern	No. 2 Manitoba Northern	No. 3 Manitoba Northern	No. 1 Canada Western Garnet	No. 2 Canada Western Garnet	No. 1 Manitoba Northern	No. 2 Canada Western Garnet
Dec. 19-30, 1957.....	FORT WILLIAM-PONT ARTHUR Canadian Consolidated Grain Co. Ltd. Empire.....	bu.	—	—	—	bu.	—	bu.	bu.
Dec. 11-17, 1957.....	Fort William Elevator Co. Ltd. Elevator "E".....	—	—	—	—	—	—	—	—
Dec. 12-18, 1957.....	Elevator "F".....	—	—	—	—	40.0	—	32.0	.8
Nov. 21-25, 1957.....	Lakehead Terminals Ltd.	—	2.7	2,774.7	1,957.1	—	—	—	—
Sept. 4-16, 1957.....	Manitoba Pool Elevators Elevator No. 6.....	—	—	—	—	1,605.2	—	16,945.8	14,029.9
Dec. 13-18, 1957.....	McCabe Grain Co. Ltd.....	—	—	—	—	53.7	—	1,777.5	2,042.2
Dec. 18-31, 1957.....	National Grain Co. Ltd.....	—	—	—	—	176.1	—	3,227.5	11,051.5
Dec. 9-18, 1957.....	Ogilvie Flour Mills Co. Ltd.....	—	—	2,968.0	—	2,181.4	—	—	6,976.4
May 12-16, 1958.....	N. M. Paterson & Sons, Ltd.....	—	—	—	26,521.5	812.5	—	23,248.2	—
Dec. 20-31, 1957.....	Saskatchewan Wheat Pool Elevator No. 4.....	—	—	—	—	4,160.8	—	38,418.7	23,274.9
Dec. 17-27, 1957.....	Elevator No. 5.....	—	—	—	—	356.8	—	7,534.8	1,209.2
Dec. 12-19, 1957.....	United Grain Growers Ltd.	—	—	—	—	872.9	—	14,434.6	95,649.9
June 9-13, 1958.....	VANCOUVER-NEW WESTMINSTER Pacific Elevators Ltd. Elevator No. 2.....	—	—	—	—	—	—	323.6	1,036.9
April 28-30, 1958.....	Elevator No. 4.....	—	—	—	—	—	—	834.4	2,572.3
Aug. 8-22, 1957.....	United Grain Growers Ltd. Elevator No. 3 (N.H.B.).....	—	546.8	—	—	—	—	17,795.0	7,736.4
July 4-7, 1958.....	PRINCE RUPERT, B.C. Canadian Government Elevator.....	—	—	—	—	—	—	—	—
July 2-7, 1958.....	NORTH TRANSCONA, MAN. Eastern Terminal Elevator Co. Ltd.....	—	—	—	—	23.7	—	453.8	1,714.2
Oct. 16-24, 1957.....	CHURCHILL, MAN. National Harbours Board.....	—	3,084.0	—	—	—	—	66,272.7	27,604.4
June 16-26, 1958.....	CALGARY, ALTA. Canadian Government Elevator.....	—	—	—	—	—	—	213.2	801.4
May 5-9, 1958.....	EDMONTON, ALTA. Canadian Government Elevator.....	—	—	—	—	—	—	24.3	496.8

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Table G-13—Excesses and Deficiencies in Specified Grades of Wheat disclosed by Weighovers of Grain Stored in PRIVATE TERMINAL Elevators, Crop Year 1957-58

Grade of Wheat	Excess	Deficiency
	bu.	bu.
No. 1 Manitoba Hard.....	—	—
No. 1 Manitoba Northern.....	—	—
No. 2 Manitoba Northern.....	—	—
No. 3 Manitoba Northern.....	—	—
No. 1 Canada Western Garnet.....	—	—
No. 2 Canada Western Garnet.....	—	—

No wheat of the above grades was handled or in store in the following elevators:

Date of Weighover	Elevator Company	Location
December 12th, 1957.....	Canada Malting Co. Ltd.....	Winnipeg, Manitoba
December 30th, 1957.....	Canada Malting Co. Ltd.....	Port Arthur, Ontario
December 10th, 1957.....	Dominion Malting Co. Ltd....	Transcona, Manitoba
December 30th, 1957.....	National Grain Feed Mill.....	Fort William, Ontario

Table G-14.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1957-58

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1958			bu.	bu.
Mar. 19-25	COLLINGWOOD Collingwood Terminals Ltd.....	Canada Western Wheat.....	—	3,275.6
		Canada Western Oats.....	3,172.2	—
		Canada Western Barley.....	574.3	—
		Canada Western Rye.....	—	13.3
		Canada Western Sample Grain.....	—	*180
		Canada Western Screenings.....	*980	—
		U.S.A. Corn.....	—	299.1
Mar. 17- April 2	GODERICH Goderich Elevator and Transit Co. Ltd.....	Canada Western Wheat.....	—	19,567.5
		Canada Western Oats.....	—	12,620.4
		Canada Western Barley.....	—	12,698.6
		Canada Western Rye.....	—	708.6
		Canada Western Sample Grain.....	*40,130	—
		Canada Western Screenings.....	—	*264,505
		U.S.A. Corn.....	—	1,500.9
Mar. 4-14	Upper Lakes and St. Lawrence Transpor- tation Co. Ltd.....	Canada Western Wheat.....	—	3,300.0
		Canada Western Oats.....	—	2,408.8
		Canada Western Barley.....	—	1,686.8
		Canada Western Mixed Grain.....	*21,380	—
		Canada Western Screenings.....	—	*68,770
Nov. 18-29, 1957	HUMBERSTONE Robin Hood Flour Mills Ltd.....	Canada Western Wheat.....	—	12,444.8
		Canada Western Barley.....	—	49.0
		Canada Western Rye.....	—	134.7
May 1	LAKEFIELD Lakefield Elevator Co..	Canada Western Wheat.....	—	343.3
Mar. 6-21	MIDLAND Canada Steamship Lines Ltd.....	Canada Western Wheat.....	—	4,487.4
		Canada Western Oats.....	—	10.5
		Canada Western Barley.....	—	52.5
Mar. 11-18	Canadian National Railways.....	Canada Western Wheat.....	—	5,441.4

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Table G-14.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1957-58—Continued

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1958			bu.	bu.
Mar. 10-20	Midland-Simcoe Elevator Co. Ltd.....	Canada Western Wheat.....	—	8,069.3
		Canada Western Oats.....	—	1,807.4
		Canada Western Barley.....	179.1	—
Feb. 25- Mar. 10	Renown Investments Ltd.....	Canada Western Wheat.....	—	1,670.6
		Canada Western Oats.....	—	297.8
Mar. 5-11	MONTREAL Dominion Elevator Ltd.	Canada Western Wheat.....	—	1,859.6
		Canada Western Oats.....	—	1,270.5
		Canada Western Barley.....	—	1,051.9
		Canada Western Sample Grain...	—	*6,385
		Canada Western Screenings.....	—	*33,400
		U.S.A. Corn.....	—	36.7
Mar. 21-28	OWEN SOUND Great Lakes Elevator Co. Ltd.....	Canada Western Wheat.....	—	279.0
		Canada Western Oats.....	—	3,162.8
		Canada Western Barley.....	613.5	—
		Canada Western Sample Grain...	*4,010	—
		Canada Western Screenings.....	—	*2,420
Mar. 10-17	PORT COLBORNE Maple Leaf Milling Co. Ltd.....	Canada Western Wheat.....	—	410.6
		Canada Western Oats.....	—	233.2
Mar. 19-28	PORT McNICOLL Canadian Pacific Railway Co.....	Canada Western Wheat.....	—	3,163.7
Feb. 18-28	PRESCOTT National Harbours Board.....	Canada Western Wheat.....	1,522.7	—
		Canada Western Oats.....	—	2,722.5
		Canada Western Barley.....	1,020.6	—
		Canada Western Rye.....	—	149.1
		Canada Western Flaxseed.....	—	2,237.1
		Canada Western Buckwheat.....	—	27.9
		Canada Western Sample Grain...	—	*1,460
		U.S.A. Flaxseed.....	—	4,439.8
		U.S.A. Corn.....	—	1,644.0
Feb. 19- Mar. 6	QUEBEC National Harbours Board.....	Canada Western Wheat.....	—	6,643.2
		Canada Western Oats.....	—	2,198.0
		Canada Western Barley.....	—	2,126.1
		Canada Western Rye.....	—	16.3
		Canada Western Mixed Grain....	—	*50
		Canada Western Sample Grain...	—	*1,640
		Canada Western Screenings.....	—	*4,090
		U.S.A. Corn.....	—	168.1
Feb. 4-18	SOREL North American Elevators Ltd.....	Canada Western Wheat.....	—	5,199.1
		Canada Western Oats.....	—	912.2
		Canada Western Barley.....	—	1,473.5
		Canada Western Flaxseed.....	—	160.0
		U.S.A. Flaxseed.....	—	557.0
		U.S.A. Corn.....	—	117.5
Feb. 17- Mar. 5	TORONTO Toronto Elevators Ltd.....	Canada Western Wheat.....	—	3,871.6
		Canada Western Oats.....	—	4,506.9
		Canada Western Barley.....	—	471.2
		Canada Western Rye.....	—	25.0
		Canada Western Flaxseed.....	—	608.8
		Canada Western Sample Grain...	—	*4,000
		Canada Western Screenings.....	—	*6,260
		U.S.A. Corn.....	94.4	—
		U.S.A. Soybeans.....	—	1,450.9

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Table G-14.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1957-58—Concluded

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1958			bu.	bu.
Mar. 24-27	WALKERVILLE Hiram Walker & Sons Grain Corp. Ltd.....	Canada Western Wheat.....	—	2,761.6
		Canada Western Oats.....	—	17.1
		Canada Western Barley.....	—	47.6
		Canada Western Rye.....	585.5	—
		U.S.A. Corn.....	—	317.0
April 10	WEST SAINT JOHN Canadian Pacific Railway Co. Elevator "B"	Canada Western Wheat.....	—	3,202.1
		Canada Western Oats.....	—	61.7
		Canada Western Rye.....	—	6.3
		Canada Western Flaxseed.....	—	543.2
		Canada Western Buckwheat.....	—	31.3
		Canada Western Soybeans.....	—	46.9
		Canada Western Rapeseed.....	—	*290
April 11	Canadian Pacific Railway Co..... Elevator "H"	Canada Western Wheat.....	—	233.5
		Canada Western Barley.....	—	182.4
		Canada Western Flaxseed.....	—	499.2
		Canada Western Buckwheat.....	—	48.4
		Canada Western Peas.....	—	35.5
		Canada Western Soybeans.....	—	158.7
		Canada Western Rapeseed.....	—	*580
Mar. 31- April 8	HALIFAX National Harbours Board.....	Canada Western Wheat.....	—	14,038.5
		Canada Western Oats.....	—	18.7
		Canada Western Barley.....	—	13.3
		Canada Western Rye.....	—	511.6
		Canada Western Flaxseed.....	—	671.1
		Canada Western Buckwheat.....	—	2.8
		Canada Western Soybeans.....	—	85.2
		Canada Western Rapeseed.....	—	*7,790
		U.S.A. Wheat.....	—	85.9

*Pounds.

APPENDIX H

The Grain Research Laboratory

J. ANSEL ANDERSON, Chief Chemist

Section 22 of the Canada Grain Act requires that "The Board shall maintain an efficient and adequately equipped laboratory for research work in relation to grain."

The following summary report of the work of the Grain Research Laboratory for 1958 deals with the quality of Canadian grain marketed during the 1957-58 crop year, the estimated quality of 1958 grain crops, and with research and other activities. As in previous years, the Laboratory will publish a separate annual report that discusses these and other phases of the year's work in greater detail.

Quality of Grain Marketed in 1957-58

Throughout the 1957-58 crop year, the Laboratory continued studies of the quality of spring wheat, durum wheat, barley, oil seeds and other cereal grains at various stages of marketing. Comprehensive data obtained from these studies will be reported in the Laboratory's 1958 annual report as tables and maps. The 1957 spring wheat crop was the highest in average protein content since 1947, and represented a return to the exceptionally strong wheats which Canada harvested continuously during the dry years between the late thirties and early forties. But it was well into the crop year before any appreciable quantity of this wheat showed in export shipments as storage space from coasts right back to farms was filled with wheat from the large carryover of below-average protein content. Improvement in the quality of exports did occur, however, as the crop year progressed, particularly at the Pacific coast.

Spring wheat marketed in 1957-58 was high in bushel weight and flour yield, and, in general, protein levels were a little higher than for corresponding grades the previous crop year. Baking strength was definitely higher than in 1956-57, and carrying power for weaker wheats was very good indeed. Baking absorption and gassing power were both at satisfactory levels. Durum wheat was higher in protein content than for several years, and macaroni-making quality was similar in many respects to that of the previous crop. Extra No. 4 C.W. and No. 4 C.W. were the principal grades exported. Malting barley was about average in quality and higher in nitrogen content than in 1956-57. The flax crop was not quite so high in either oil content or iodine value as in the previous crop year, and the rapeseed crop was also a little lower in oil content.

Estimated Quality of 1958 Crops

The 1958 Western wheat crop is one of the smallest harvested in the last ten years, but it is low in moisture and high in grade and protein content. Production is estimated at 341 million bushels (including 16 million of durum wheat) from 20.2 million acres. About 90% of the spring wheat is expected to grade No. 3 Northern and higher, and for the first time in several years there is a fairly large volume of No. 1 Northern. Protein content is 13.8%, which is 0.3% higher than the long-term average. Bushel weight is high, and the Northern grades mill well and give high yields of flour. Baking strength is high, carrying power is very good, and doughs are lively and extensible. Baking absorption is high and gassing power is satisfactory. The new crop is

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higher in baking strength and better in carrying power than wheat exported in the last quarter of the 1957-58 crop year.

Production of durum wheat this year is well below the 44 million bushels harvested last year, and the major part of this reduction resulted from the much smaller acreage seeded (56% less than in 1957). About 85% of the crop will grade No. 2 C.W. and No. 3 C.W., and the wheat is vitreous, and high in bushel weight and protein content. Dough properties are very good, yellow pigment is high, and milling and macaroni-making qualities are excellent. The quality of the new durum crop appears to be consistently better, grade for grade, than current shipments moving forward.

The new barley crop is estimated at 237 million bushels, which is about 10% higher than in 1957. Early deliveries in the 1958-59 crop year show that 54% of the barley entered the malting grades, and it is expected that larger quantities of No. 1 and No. 2 C.W. Six Row will be available this year. Comparable results for the two crops show that malt extract, wort nitrogen, and enzymatic activity are essentially the same, but that bushel weight and kernel weight are higher this year.

The 1958 flax crop of 23 million bushels is one of the largest on record, and grade and bushel weight are both high. Oil content and protein content are a little higher this year than last year, but iodine value is a little lower. The rapeseed crop is estimated at 430 million pounds, and almost all of it is expected to go into the top grade. Oil content and protein content are much the same as last year's crop.

Bulletins and Maps

Preliminary information on the quality of different grades of 1958 grain crops was published as protein maps and crop bulletins a month or so after harvesting was completed. As in previous years there were two protein maps (one preliminary and one final), two bulletins on wheat, one on barley, and one on flax and rapeseed. In addition to a wide distribution of these publications made by the Laboratory from its extensive mailing lists, large supplies of some of them were turned over to the Canadian Wheat Board for separate mailing. Two thousand copies of the bulletin on the quality of the new wheat crop were also sent to the Grain Division, Department of Trade and Commerce, Ottawa, for distribution to overseas buyers of Canadian wheat and flour by Canadian Trade Commissioners. Press releases preceded publications of the maps and bulletins, and much of the information reported was presented at the meeting of the Committee on Western Grain Standards held in Winnipeg on October 23.

Regular publication of the two series of quarterly bulletins, one on the quality of spring wheat cargoes and one on the quality of durum wheat cargoes, was continued throughout 1958. Some changes in the form of the bulletins and in methods of testing were introduced at the beginning of the 1958-59 crop year, and issues for the first quarter embodied these modifications. More data are now presented than formerly and comments on the quality of the grades exported have been shortened. These quarterly bulletins are among the most popular of the Laboratory's publications, and requests for additional copies have increased every year since they were issued.

Service to the Inspection Branch

During the year, the Laboratory maintained close co-operation with the Inspection Branch by providing technical information and service required for grading and other problems. Comprehensive quality tests were made on the tentative Standard and Standard Export samples submitted for approval by the Committee on Western Grain Standards. Special tests were made on different

types and classes of grain to provide information to assist in grading. For example, malting tests confirmed the claims of maltsters and brewers that peeled barley is low in germination, extract yield and enzymatic activity, and contains moulds that carry undesirable products into the brewhouse; milling and baking tests showed that severely weathered wheat gives flour that is low in baking strength and inferior in dough and loaf qualities. Supervision of moisture testing and of equipment in Inspection offices was continued as one of the Laboratory's responsibilities, and during the year the number of C.A.E. electrical moisture meters installed was increased to 17. Electrical moisture meters are being used in Inspection offices to segregate grain of low moisture content that would otherwise require testing by the longer Brown-Duvel method. The Laboratory completed conversion charts for the 3.5 inch cell, to be used with meters in the Inspection office at Chatham.

Variety Testing

As in previous years the Laboratory took a major part in studies of the quality of spring wheat, durum wheat and malting barley varieties grown by Canadian plant breeders. These annual studies are sponsored by the Associate Committee on Grain Research. Three spring wheat varieties that have been studied for several years are now being tested, in comparison with Marquis, in a large collaborative study by chemists in Great Britain, Germany, the Netherlands, Belgium, Japan, the United States and Canada. Each chemist will make independent tests by his own methods, and it is expected that their reports will be available for study early next year. Testing procedures for spring wheat varieties are being expanded to include methods that are in general use in some importing countries. Information obtained from these supplementary tests is expected to broaden our knowledge of what constitutes quality in bread wheats, and should be useful in selecting better quality material for use as parent stock by plant breeders. Good progress has been made in developing laboratory dehulling techniques for detecting loose-hulled varieties of barley, and pearling and pressing tests have provided useful data for evaluating barley that is used for processing as food. Good use continues to be made by plant breeders of data from small-scale prediction tests developed by the Laboratory for segregating promising durum wheat and barley hybrids in early generation material, and studies are being continued to develop similar methods for spring wheat varieties. In addition to the annual variety studies mentioned, the Laboratory has continued to make quality tests on varieties grown in the Uniform Quality Nursery. This Nursery is maintained by Canadian plant breeders to provide material for quality tests on parent stock required in the breeding program. The resulting catalogue of quality characteristics for a wide range of varieties helps the plant breeder to select parents for new crosses that will combine desirable agronomic and quality characteristics.

Services to Other Organizations

Requests for laboratory services and technical advice by the Canadian Wheat Board, the Grain Division of the Department of Trade and Commerce, and other Government bodies have continued to increase somewhat over the previous year. A good portion of this liaison work relates to promotion of sales of Canadian grain and often involves comparisons with grain from other countries. Frequent requests for information on the quality of different grades and types of Canadian grain were received from various sources, and considerable time was required to deal with them.

Close co-operation has been maintained with the Brewing and Malting Barley Research Institute, Winnipeg; with the Cereal Quality Section, Canada

Department of Agriculture, Winnipeg; and with the Northwest Crop Improvement Association, Minneapolis. The Laboratory has continued to take an active part in the work of the American Association of Cereal Chemists and the International Association for Cereal Chemistry.

Research

Two factors this past year have disturbed the normal program of the Laboratory. The outfitting of new laboratories and the refitting of some older ones has caused some disruption in the flow of work although no essential operations have been affected. In addition, the Basic Wheat Research section has been rather short staffed, with Dr. Bushuk and Mr. Birnboim absent on academic leave, and with Dr. Cunningham resigning in August. By the end of the year, however, most of the changes were completed and with the new facilities, the program of routine testing, applied research and basic research is once again functioning smoothly and efficiently.

In applied research on wheat, systematic studies of bread wheats and durum wheats competing with Canadian wheats in the European market have been started. Research into better testing methods is continuing, and an improved baking method has been developed and is now in use. Improvements have been made in our milling equipment and our results now closely resemble those of commercial mills; work with the Experimental Wheat Conditioner has been started. A number of quality tests, used in countries which import Canadian wheat but not used on this continent, are being studied and evaluated.

The applied research project on the quality of stored flour is continuing and a constant check is being maintained on the quality of wheat in store in Western Canada.

In basic research on wheat, the relation between dough mobility and absorption is being studied to provide a basis for fundamental studies of dough rheology using the Farinograph. A new technique, light scattering, has been applied to studies of flour constituents and the recently developed amperometric titration technique has been utilized in extensive studies of the sulfhydryl group in flour. A quantitative relationship has been established between bromate concentration in dough and the relaxation constant, while other aspects of the general study of physical properties of dough are being developed.

In barley research, more units of the new-type malting equipment are being assembled, following the success of the initial installation. Pilot brews have been prepared by the Brewing and Malting Barley Research Institute from malts made in the new equipment. The compounds responsible for wort nitrogen are being separated by electrophoresis and malting studies of low, medium and high wort nitrogen varieties are being made. The cytolytic enzymes continue to receive attention and some success has been achieved in separating this enzyme system into several components.

Staff and Facilities

The second award of the National Research Council Postdoctorate Fellowship tenable in the Board's Laboratory, was made to Dr. A. H. Bloksma of the Institute for Cereals, Flour and Bread, T.N.O., Netherlands, who arrived in August. Professor Matsumoto, the first Fellow to come, returned to Japan in July. Dr. Bloksma is working with Dr. Hlynka in dough rheology. Mr. G. S. Bains of the Central Food Technological Research Institute, Mysore, India, is a Colombo Plan Fellow who is spending a year in the Laboratory working in the Applied Wheat Research section with Dr. Irvine.

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Dr. W. Bushuk has returned to the Laboratory after a year's postdoctoral study at Strasbourg, France. Mr. M. H. Birnboim is now in his last year of study for a Ph.D. degree at the University of Wisconsin.

One addition has been made to the professional staff during the year, Mr. E. Aston, who is working in the Applied Wheat Research section, and one addition has been made to the subprofessional staff. With regret the Basic Wheat Research section lost one of its senior chemists, Dr. D. K. Cunningham, who resigned in August to accept a position in the United States. The two summer student positions were filled this year by Mr. E. J. Zebrowski and Mr. M. A. J. Morello.

Fitting out of the additional space acquired last year is nearly completed. The new milling and baking laboratories are now in operation and the Basic Wheat Research section has been rehoused on the eighth floor. Only two operations remain, moving the malting laboratory to the main floor and re-fitting the space on the eighth floor for the Applied Wheat Research section. This work should be completed before the middle of the coming year.

Overseas Visits and Visitors

Dr. Anderson was a member of the Minister's mission to the United Kingdom, the Netherlands, Belgium and Western Germany, and subsequently visited France, Switzerland, Italy, Austria and Hungary.

Dr. Hlynka and Dr. A. G. McCalla, Dean of Graduate Studies and Agriculture, University of Alberta, undertook a mission to Japan and gave special attention to cereal research in government, university and commercial laboratories.

A group of distinguished cereal chemists from Western Germany spent several days in the laboratory during a tour of Canada. The mission comprised Professor P. F. Pelshenke, Dr. K. Ritter, and Dr. E. Fritsch, together with Dr. H. Schmitz of the Department of Food, Agriculture and Forestry.

APPENDIX I

Canadian Government Elevators

A. E. JACOBSON, General Manager

In accordance with the provisions of Section 166 of the Canada Grain Act and Order-in-Council P.C. 1372 of August 19, 1925, the Board manages and operates five interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge, and one terminal elevator at Prince Rupert, and leases one terminal elevator at Port Arthur.

In the 1957-58 crop year, interior and Prince Rupert elevators were operated under Semi-Public Terminal Elevator licences. Port Arthur continued under lease to McCabe Grain Company Limited.

Handlings

Receipts at 17.4 million bushels in the 1957-58 crop year were 2½ per cent higher than the previous year. Shipments at 18.1 million bushels were 3.5 per cent lower. Shipments were .7 million bushels higher than receipts reflecting a lower in-store figure at the end of the crop year. Receipts of wheat and barley at 13.4 million bushels constituted 75 per cent of total receipts. Receipts of rapeseed were substantial, amounting to 3.7 million bushels. Shipments were 3.1 million. This grain was handled at the Saskatoon, Calgary and Edmonton elevators. Receipts at Prince Rupert were composed entirely of barley. Receipts and shipments by elevators were:

Elevator	Capacity	Stocks August 1, 1957	Net Receipts	Net Shipments	Stocks July 31, 1958
	million bu.	bu.	bu.	bu.	bu.
Moose Jaw.....	5.50	5,395,723	255,158	255,158	5,395,723
Saskatoon.....	5.50	3,272,128	2,394,505	2,475,325	3,171,128
Calgary.....	2.50	1,277,060	2,776,510	3,063,152	995,060
Edmonton.....	2.35	842,982	1,330,782	1,631,722	543,940
Lethbridge.....	1.25	692,714	354,816	146,673	908,585
Prince Rupert.....	1.25	349,697	10,357,022	10,562,860	134,890
Totals.....	18.35	11,830,304	17,468,793	18,134,890	11,149,326

Charges

Storage charges at all elevators remained unchanged: Interior elevators at 1/45c, Prince Rupert at 1/30c per bushel per day. Storage and elevation charges at Prince Rupert are the same as in effect at the Lakehead and other Pacific Coast ports. Elevation charges at the interior elevators on wheat, oats, barley and corn are 1¼c per bushel, 1c per bushel lower than charges at the Lakehead and Pacific coast ports; rye at 1¼c per bushel, flax at 2¾c per bushel, are both 1½c per bushel lower than at the Lakehead and Pacific coast.

BOARD OF GRAIN COMMISSIONERS

Maintenance

Good maintenance practice with respect to buildings, machinery and trackage was continued. Under direction of the General Manager, a Repair and Reconstruction Unit has been created within the Canadian Government Elevators organization. It is fully equipped with construction machinery and will be responsible for the maintenance of buildings and structures at all elevators in good repair and condition. It was engaged in repair of concrete walls and supports at the Saskatoon elevator during 1958. Obsolete lighting panels at Moose Jaw, Saskatoon and Calgary were replaced with new equipment. Garner Alarm Signal systems were installed in those elevators. The Dust Control System at the Saskatoon elevator, commenced in 1957, was completed. Millwright workshops at all elevators have been equipped with power machinery sufficient to take care of all repairs to machinery, steel spouts, etc., except for very heavy repair work.

Staff

Staff employed as at December 31, 1958, compared with figures at December 31, 1957, is as follows:

	1958		1957	
	Continuing Establish-ment	Casuals	Continuing Establish-ment	Casuals
Winnipeg (Head Office).....	8	—	8	—
Moose Jaw.....	31	1	31	1
Saskatoon.....	33	11	29	10
Calgary.....	33	—	32	2
Edmonton.....	32	—	30	—
Lethbridge.....	20	—	19	3
Prince Rupert.....	34	22	29	17
Repair and Reconstruction Unit.....	—	12	—	—
	191	46	178	33

Revenue and Expenditure

Revenue and expenditure for the fiscal year 1957-58 compared with the previous fiscal year were as follows:

	1957-58	1956-57
Revenue.....	\$1,826,404	\$1,982,430
Expenditure.....	1,358,617	1,323,293
Surplus.....	467,787	659,137

For the first nine months of the current fiscal year revenue was \$1,727,269, and expenditure was \$1,090,994.

TRADE AND COMMERCE

APPENDIX J

Table J-1—EXPENDITURE, by Point, Branch and General Item, Fiscal Year ended March 31, 1958

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$	\$	\$	\$	\$
WINNIPEG					
Executive.....	65,504.10	12,312.81	6,181.97	12,867.90	96,866.78
Assistant Commissioners.....	11,354.96	807.80	1,981.03	596.66	14,740.45
License and Bonding.....	26,748.48	2,520.00	288.30	2,318.24	31,875.02
Registration.....	37,260.97	4,184.33	370.45	683.67	42,499.42
Research Laboratory.....	186,149.00	22,309.09	8,504.60	58,233.11	275,195.80
Statistics.....	89,475.17	15,308.78	802.52	30,634.29	136,220.76
Appeal Tribunal.....	6,615.00	598.44	—	1,286.18	8,499.62
Standards Committee.....	—	—	2,369.10	1,830.00	4,199.10
Inspection.....	641,358.92	27,045.21	2,251.88	33,059.97	703,715.98
Weighing.....	64,116.66	1,623.23	1,496.59	1,810.00	69,046.48
CHURCHILL					
Inspection.....	25,971.84	.66	5,259.47	567.78	31,799.75
Weighing.....	14,951.66	.34	3,473.09	249.77	18,674.86
KEEWATIN					
Inspection.....	6,245.05	—	—	5.90	6,250.95
Weighing.....	9,820.38	—	—	43.47	9,863.85
SASKATOON					
Assistant Commissioner.....	12,079.96	—	2,059.74	185.52	14,325.22
Inspection.....	41,597.33	877.00	—	1,376.55	43,850.88
Weighing.....	31,650.74	—	288.45	21.50	31,960.69
MOOSE JAW					
Inspection.....	33,985.58	1,440.00	124.00	1,016.16	36,565.74
Weighing.....	17,684.38	—	394.57	14.32	18,093.27
MEDICINE HAT					
Inspection.....	12,069.77	841.00	—	236.17	13,146.94
Weighing.....	9,812.76	—	130.30	31.20	9,974.26
LETHBRIDGE					
Inspection.....	12,012.70	—	293.65	273.88	12,580.23
Weighing.....	6,050.94	—	200.77	20.00	6,271.71
REGINA					
Assistant Commissioner.....	11,707.46	1,897.56	2,075.55	356.13	16,036.70
CALGARY					
Inspection.....	114,153.92	7,297.00	106.35	4,438.82	125,996.09
Weighing.....	52,882.91	792.00	1,337.26	450.59	55,462.76
Appeal Tribunal.....	8,121.43	987.00	477.17	1,690.22	11,275.82
EDMONTON					
Inspection.....	135,961.37	8,604.00	944.05	5,225.81	150,735.23
Weighing.....	15,408.82	—	81.45	97.80	15,588.07
Appeal Tribunal.....	3,285.00	1,170.00	202.95	948.61	5,606.56
Assistant Commissioner.....	12,079.96	1,992.00	3,288.14	301.97	17,662.07
VANCOUVER					
Inspection.....	215,037.48	6,965.40	466.35	6,486.60	228,955.83
Weighing.....	201,632.98	2,675.40	603.58	3,296.47	208,208.43
Registration.....	11,545.00	1,795.20	—	273.71	13,613.91
FORT WILLIAM					
Inspection.....	806,006.21	20,388.00	8,824.55	15,342.52	850,561.28
Weighing.....	628,650.14	4,380.00	23,814.69	9,223.05	666,067.88

BOARD OF GRAIN COMMISSIONERS

Table J-1.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year ended March 31, 1958—Concluded

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$	\$	\$	\$	\$
TORONTO					
Inspection.....	9,423.86	1,200.00	344.75	514.70	11,483.31
Weighing.....	4,655.00	—	—	—	4,655.00
MONTREAL					
Inspection.....	110,021.71	5,418.00	10,278.65	3,033.87	128,752.23
Weighing.....	5,547.50	1,178.28	774.09	430.43	7,930.30
Registration.....	18,075.00	2,388.72	—	886.21	21,349.93
CHATHAM					
Inspection.....	39,886.27	1,380.00	12,220.98	1,354.45	54,841.70
PRINCE RUPERT					
Inspection.....	13,120.26	—	2,236.66	29.18	15,386.10
Weighing.....	11,789.46	—	703.72	52.00	12,545.18
VICTORIA					
Inspection.....	11,176.61	—	259.82	68.84	11,505.27
Weighing.....	8,802.13	—	228.71	—	9,030.84
OTTAWA					
Inspection.....	12,560.00	25.00	2,884.93	191.75	15,661.68
Totals.....	3,824,046.83	160,402.25	108,624.88	202,055.97	4,295,129.93

Table J-2—Accrued Revenue, by Point and Branch, Fiscal Year ended March 31, 1958

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
	\$	\$	\$	\$
WINNIPEG				
Executive.....	—	—	200.00	200.00
License and Bonding.....	29,131.00	—	—	29,131.00
Registration.....	24,643.03	—	6.27	24,649.30
Appeal Tribunal.....	1,668.00	—	—	1,668.00
Research Laboratory.....	—	—	—	—
Inspection.....	309,954.44	8,984.04	3,545.00	322,483.48
Weighing.....	27,571.67	—	1,616.90	29,188.57
CHURCHILL				
Inspection.....	52,765.92	—	—	52,765.92
Weighing.....	26,382.96	—	—	26,382.96
KEEWATIN				
Inspection.....	6,500.40	—	373.02	6,873.42
Weighing.....	8,273.46	—	505.98	8,779.44
SASKATOON				
Inspection.....	24,644.67	834.34	—	25,479.01
Weighing.....	12,606.71	—	—	12,606.71
MOOSE JAW				
Inspection.....	9,809.27	344.72	88.64	10,242.63
Weighing.....	5,164.31	—	—	5,164.31
MEDICINE HAT				
Inspection.....	9,268.34	282.74	—	9,551.08
Weighing.....	6,106.86	—	486.88	6,593.74

TRADE AND COMMERCE

Table J-2.—Accrued Revenue, by Point and Branch, Fiscal Year ended March 31, 1958
Concluded

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
	\$	\$	\$	\$
LETHBRIDGE				
Inspection.....	3,791.78	331.18	—	4,122.96
Weighing.....	1,337.35	—	—	1,337.35
CALGARY				
Inspection.....	111,478.76	2,619.44	642.65	114,740.85
Weighing.....	20,363.19	—	820.16	21,183.35
Appeal Tribunal.....	2,112.00	—	—	2,112.00
EDMONTON				
Inspection.....	86,282.07	2,062.44	555.66	88,900.17
Weighing.....	3,313.14	—	53.82	3,366.96
Appeal Tribunal.....	1,044.00	—	—	1,044.00
VANCOUVER				
Inspection.....	315,568.13	10,540.29	646.13	326,754.55
Weighing.....	241,730.52	—	258.75	241,989.27
Registration.....	13,057.92	—	—	13,057.92
VICTORIA				
Inspection.....	8,625.42	154.98	—	8,780.40
Weighing.....	6,166.20	—	—	6,166.20
PRINCE RUPERT				
Inspection.....	15,192.59	158.53	—	15,351.12
Weighing.....	10,931.57	—	—	10,931.57
FORT WILLIAM				
Inspection.....	588,813.65	8,197.21	1,551.67	598,562.53
Weighing.....	443,940.77	—	3,172.94	447,113.71
TORONTO				
Inspection.....	4,419.53	91.50	174.44	4,685.47
Weighing.....	4,655.00	—	—	4,655.00
CHATHAM				
Inspection.....	42,594.48	646.80	1,832.95	45,074.23
MONTREAL				
Inspection.....	12,745.30	420.80	3,470.60*	16,636.70
Weighing.....	.20	—	—	.20
Registration.....	8,343.85	—	—	8,343.85
Totals.....	2,500,998.46	35,669.01	20,002.46	2,556,669.93

(a) Details in Table J-4.

*Includes \$2,952.79 Refund of Previous Year's Expenditure.

BOARD OF GRAIN COMMISSIONERS

Table J-3.—Accrued Revenue and Net Expenditure, by Points and Branches, Fiscal Year ended March 31, 1958

	Inspection	Weighing	Appeal Tribunals	Registra- tion	License and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Adminis- tration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
REVENUE										
Winnipeg.....	322,483.48	29,188.57	1,668.00	24,649.30	29,131.00	—	—	—	200.00	407,320.35
Churchill.....	52,765.92	26,382.96	—	—	—	—	—	—	—	79,148.88
Keewatin.....	6,873.42	8,779.44	—	—	—	—	—	—	—	15,652.86
Saskatoon.....	25,479.01	12,606.71	—	—	—	—	—	—	—	38,085.72
Moose Jaw.....	10,242.63	5,164.31	—	—	—	—	—	—	—	15,406.94
Medicine Hat.....	9,551.08	6,593.74	—	—	—	—	—	—	—	16,144.82
Lethbridge.....	4,122.96	1,337.35	—	—	—	—	—	—	—	5,460.31
Calgary.....	114,740.85	21,183.35	2,112.00	—	—	—	—	—	—	138,036.20
Edmonton.....	88,900.17	3,366.96	1,044.00	—	—	—	—	—	—	93,311.13
Vancouver.....	326,754.55	241,989.27	—	13,057.92	—	—	—	—	—	581,801.74
Victoria.....	8,780.40	6,166.20	—	—	—	—	—	—	14,946.60	—
Prince Rupert.....	15,351.12	10,931.57	—	—	—	—	—	—	—	26,282.69
Fort William.....	598,562.53	447,113.71	—	—	—	—	—	—	—	1,045,676.24
Toronto.....	4,685.47	4,655.00	—	—	—	—	—	—	—	9,340.47
Chatham.....	45,074.23	—	—	—	—	—	—	—	—	45,074.23
Montreal.....	16,636.70	.20	—	8,343.85	—	—	—	—	—	24,980.75
Ottawa.....	—	—	—	—	—	—	—	—	—	—
Totals.....	1,651,004.52	825,459.34	4,824.00	46,051.07	29,131.00	—	—	—	200.00	2,556,669.93

Table J-3.—Accrued Revenue and Net Expenditure, by Points and Branches, Fiscal Year ended March 31, 1958—Concluded

	Inspection	Weighing	Appeal Tribunals	Registra- tion	License and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Adminis- tration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
EXPENDITURE										
Winnipeg.....	703,715.98	69,046.48	8,499.62	42,499.42	31,875.02	136,220.76	275,195.80	4,199.10	111,607.23	1,382,859.41
Churchill.....	31,799.75	18,674.86	—	—	—	—	—	—	—	50,474.61
Keewatin.....	6,250.95	9,863.85	—	—	—	—	—	—	—	16,114.80
Saskatoon.....	43,850.88	31,960.69	—	—	—	—	—	—	14,325.22	90,136.79
Moose Jaw.....	36,565.74	18,093.27	—	—	—	—	—	—	—	54,659.01
Medicine Hat.....	13,146.94	9,974.26	—	—	—	—	—	—	—	23,121.20
Lethbridge.....	12,580.23	6,271.71	—	—	—	—	—	—	—	18,851.94
Regina.....	—	—	—	—	—	—	—	—	16,036.70	16,036.70
Calgary.....	125,996.09	55,462.76	11,275.82	—	—	—	—	—	192,734.67	192,734.67
Edmonton.....	150,735.23	15,588.07	5,606.56	—	—	—	—	—	17,662.07	189,591.93
Vancouver.....	228,955.83	208,208.43	—	—	—	—	—	—	—	450,778.17
Victoria.....	11,505.27	9,030.84	—	13,613.91	—	—	—	—	—	20,536.11
Prince Rupert.....	15,386.10	12,545.18	—	—	—	—	—	—	—	27,931.28
Fort William.....	850,561.28	666,067.88	—	—	—	—	—	—	—	1,516,629.16
Toronto.....	11,483.31	4,655.00	—	—	—	—	—	—	—	16,138.31
Chatham.....	54,841.70	—	—	—	—	—	—	—	—	54,841.70
Montreal.....	128,752.23	7,930.30	—	21,349.93	—	—	—	—	—	158,032.46
Ottawa.....	15,661.68	—	—	—	—	—	—	—	—	15,661.68
Totals.....	2,441,789.19	1,143,373.58	25,382.00	77,463.26	31,875.02	136,220.76	275,195.80	4,199.10	159,631.22	4,295,129.93

BOARD OF GRAIN COMMISSIONERS

Table J-4.—Summary of Operations by Branches, Fiscal Year ended March 31, 1958

	Inspection	Weighing	Appeal Tribunals	Registra- tion	License and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Adminis- tration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
REVENUE										
Fees.....	1,602,454.75	818,543.91	4,824.00	46,044.80	29,131.00	—	—	—	—	2,500,998.46
Samples Sold.....	35,669.01	—	—	—	—	—	—	—	—	35,669.01
Other Revenue:										
Overtime Refunded	5,915.47	6,897.43	—	—	—	—	—	—	—	12,812.90
Express Charges.....	3,859.50	—	—	—	—	—	—	—	—	3,859.50
Jury Fees.....	153.00	18.00	—	—	—	—	—	—	—	171.00
Fines.....	—	—	—	—	—	—	—	—	200.00	200.00
Refund of Previous Year's Expenses.....	2,952.79	—	—	—	—	—	—	—	—	2,952.79
Miscellaneous Revenue.....	—	—	—	6.27	—	—	—	—	—	6.27
Totals.....	1,651,004.52	825,459.34	4,824.00	46,051.07	29,131.00	—	—	—	200.00	2,556,669.93
EXPENDITURE										
Salaries.....	2,240,588.88	1,083,456.46	18,021.43	66,880.97	26,748.48	89,475.17	186,149.00	—	112,726.44	3,824,046.83
Rent.....	81,481.27	10,649.25	2,755.44	8,368.25	2,520.00	15,308.78	22,309.09	—	17,010.17	160,402.25
Travel.....	46,496.09	33,527.27	680.12	370.45	288.30	802.52	8,504.60	2,369.10	15,586.43	108,624.88
General Expenses.....	56,781.84	11,192.88	3,913.10	1,475.42	1,489.70	5,032.77	52,624.26	1,830.00	13,051.63	147,411.60
Printing and Stationery.....	16,441.11	4,547.72	11.91	368.17	828.54	25,581.52	5,608.85	—	1,256.55	54,644.37
Totals.....	2,441,789.19	1,143,373.58	25,382.00	77,463.26	31,875.02	136,220.76	275,195.80	4,199.10	159,631.22	4,295,129.93

APPENDIX K

Regulations

Regulations in effect December 31, 1958, made in accordance with the provisions of the Canada Grain Act

Regulation
No.

- 1 Registration and Cancellation of Terminal Elevator Warehouse Receipts.
- 2 Registration and Cancellation of Eastern Warehouse Receipts and Transfer Receipts.
- 3 Plans re Terminal and Eastern Elevators.
- 4 Cleaning of Grain and Bins.
- 5 Off Grades for Western Grain.
- 6 Off Grades for Eastern Grain.
- 7 Grades of Screenings.
- 8 Inspection of Samples taken other than at an Inspection Point.
- 9 Appeals from Inspecting Officers to Grain Appeal Tribunals.
- 10 Delivery of Grain to Ocean Vessels at Montreal, Quebec.
- 11 Delivery of Grain to Ocean Vessels at West Saint John, N.B.
- 12 Delivery of Grain to Ocean Vessels at East Saint John, N.B.
- 13 Delivery of Grain to Ocean Vessels at Halifax, N.S.
- 14 Enforcement of Lien by Sale of Grain.
- 15 Drying of Grain.
- 16 Fees.
- 17 Records, Reports and Returns.
- 18 Procedure, Country Elevators.
- 19 Receipt for Grain Delivered to Private Country Elevators and Mill Elevators.
- 20 Maximum Tariff of Charges, Eastern Elevators.
- 21 Maximum Tariff of Charges and Shrinkage Allowance, Country Elevators.
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ANNUAL REPORT

OF THE

Board of Grain Commissioners for Canada

FOR THE YEAR

1959

DEPARTMENT OF TRADE AND COMMERCE

OTTAWA, CANADA

Minister: JAMES DUFFY *Deputy Minister:*

HON. GORDON CHURCHILL, M.P. JOHN H. ENGLISH

QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1960.

Price: 35 cents.



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Winnipeg, Manitoba,
January 22, 1960.

The Honourable Gordon Churchill, M.P.,
Minister of Trade and Commerce,
Ottawa, Canada.

Sir:

We beg to submit herewith Report of the Board of Grain Commissioners for Canada for the year 1959 in compliance with Section 23 of the Canada Grain Act.

This report records information and statistics relating to grain handlings for the crop year August 1, 1958 to July 31, 1959, expenditures and revenue for the fiscal year April 1, 1958 to March 31, 1959, and summarizes the major activities of the Board for the 1959 calendar year.

Grain Supplies and Disposition—Crop Year 1958-59

Exports and domestic needs exceeded new grain production during the 1958-59 crop year and Canadian grain holdings declined for the second consecutive season. The July 31, 1959, storage totals were some 13% below the previous year's carryover and 28% below the record supplies held at the close of 1956-57.

Canadian grain stocks on August 1, 1958, included 928 million bushels of wheat, oats, barley, rye and flaxseed held either in licensed storage or in farm bins or in transit between positions. The 1958 crops of 371.7 million bushels of wheat and 8.0 million bushels of rye were relatively unchanged from the previous season's levels but improved yields of the other three principal grains resulted in slightly heavier production of oats (401 millions), barley (244.8 millions) and flaxseed (22.8 million bushels). Inward carryover augmented by 1958 production made available approximately 1,976 million bushels of these five grains, combined, for domestic needs and exports, 139 million bushels less than the total grain supplies available in the preceding season.

Canada exported from these supplies 377.8 million bushels either as grain or in the form of wheat flour, a drop of 58.4 million bushels from the 1957-58 overseas and U.S. movement. Domestic requirements for feed, seed, commercial products and human consumption rose still further during 1958-59 absorbing a record 788 million bushels of the five principal grains. The combined export and domestic movement—1,165.9 million bushels—while lighter than the 1,215 millions total disappearance recorded for 1957-58, still more than offset the 1958 production and the 810.6 million bushels of grain on hand in Canada on July 31, 1959, reflected a reduction of 117.7 millions from the preceding year-end carryover.

The lighter export movement resulted in a general backing up within the entire handling system. The Pacific Coast loadings fell off from the record level set in 1957-58 but still held above previous levels notwithstanding the fact that these ports were strike-bound during the early portion of the season. Movement through the Great Lakes-Atlantic system also fell off as a result of the reduced clearances to United States points. The overseas total by way of the Eastern system declined only slightly from the previous season although the early movement of ocean boats into Great Lakes following the opening of the St. Lawrence Seaway resulted in a diversion of ocean loadings from St. Lawrence ports to direct shipping at Fort William-Port Arthur.

Marketings

Storage congestion still limited the primary movement into the licensed system. Western country elevator average stocks held at high levels throughout the season and despite the development of storage space in certain areas the overall volume of primary marketings at 557.7 million bushels was 23.0 millions below the 1957-58 total. Primary receipts at western country elevators accounted for 546.2 million bushels of this total with a further 5.5 millions delivered to interior mills and terminals, .2 millions marketed over country loading platforms and 5.8 millions delivered direct to licensed eastern elevators. This latter quantity of eastern grown grain, chiefly wheat, was slightly higher than the eastern marketings of the past several years.

Country Elevator Shipments

The controlling influence of Canada's export trade on country grain shipments was directly illustrated by the 1958-59 carlot movement from country elevators. Reflecting back into country loadings, the 58.4 million bushel total reduction in overseas clearances was paralleled by a 59.3 million bushel drop in the total quantities put on rails at western country elevators. The cut-back in loadings closely paralleled the overseas reduction not only on grain for grain basis but also in the east-west distribution of these shipments.

Terminal Handlings

The drop in United States imports of Canadian grain was most noticeable in Lakehead handling statistics. Shipments from Fort William-Port Arthur to United States ports fell off from 47.6 million bushels in 1957-58 to only 16.3 millions in 1958-59. Correspondingly Fort William-Port Arthur unloads of the five principal grains combined, at 287.8 million bushels, were down 38.2 million bushels from 1957-58 receipts. Total shipments to all points including direct overseas amounted to 278.2 million bushels by lake and 11.4 millions by rail for an all-grain total of 289.6 million bushels compared with 326.9 millions in 1957-58. The 1958-59 Lakehead vessel traffic included 11.9 millions of direct overseas loadings, all but .6 millions of which moved during the spring period when the first influx of ocean boats came into the Great Lakes system through the St. Lawrence Seaway.

The 1958-59 wheat export movement through the port of Churchill amounted to 18.4 million bushels. A further cargo of .3 million bushels of oats moved overseas. The 1958 shipping season total, including the 1.8 millions of wheat shipped prior to July 31, 1958, established a new season record for wheat shipping via this port with 55 vessels carrying 19.6 million bushels. This record was further surpassed during the 1959 season when 58 overseas vessels carried 21.8 millions of wheat via the northern route.

Pacific coast ports strike-bound during late August and September shipped 154.1 million bushels of grain on ocean vessels, 15.5 million less than the record 1957-58 export loadings but still the second highest ocean movement in the history of that sector. The crop year total included 106.5 millions of wheat, 3.7 million bushels of oats, 36.9 millions of barley, .3 millions of rye and 6.7 million bushels of flaxseed. The barley and flaxseed shipments constituted record crop year volumes for these two grains via Pacific Coast ports.

Eastern Elevator Handlings

The closing three months of the 1958-59 season presented an entirely new situation for Canada's Eastern elevators. With the St. Lawrence Seaway open, ocean boats of economical size could now move all the way up to the head of the

inland system and conversely the large upper-lake vessels could carry their full cargo from Fort William-Port Arthur direct to St. Lawrence ports. The ocean vessel movement direct from the Head of the Lakes accounted for 11.3 million bushels of grain during that three-month period. What portion of this would have been otherwise exported via St. Lawrence ports is impossible to assess. However, loadings at Montreal, Sorel, Three Rivers and Quebec during the 1958-59 season fell off approximately 15 million bushels to a total of 108.1 millions of the five principal Canadian grains combined. At the same time the opening of the St. Lawrence Seaway gave rise to a substantial increase in the export movement of United States grains via St. Lawrence Canadian elevators and these latter ports handled for export approximately 17 million bushels of U.S. grain during the spring period alone. The ability of the upper lake vessels to move directly to St. Lawrence ports with consequent savings over the former transfer movement resulted in a substantial increase in direct unloads at the river ports. From the opening of the Seaway to July 31, 20.7 millions bushels of grain were unloaded at Montreal and below direct from the Lakehead compared with only 3.2 millions during the corresponding 1958 period.

There was little change in the grain handling levels at the Maritime ports of Saint John and Halifax. Shipments from these elevators during 1958-59 totalled 31.1 million bushels made up of 29.7 millions of wheat, 1.3 millions of flaxseed and small parcels of oats and barley. An initial test movement of western grain direct by vessel from Fort William-Port Arthur to Halifax for Maritime domestic use took place during the closing period of the crop year. The potential of this movement remains to be assessed.

Exports

Canada's exports of the five principal grains, together with clearances of wheat flour, totalled 377.8 million bushels in the 1958-59 crop year. These shipments were made up of 252.2 million bushels of wheat, moved through licensed elevator channels, 36.7 millions of wheat flour (in terms of wheat equivalent), 7.0 millions of oats, 64.4 million bushels of barley, 3.2 millions of rye and 14.3 million bushels of flaxseed. Compared with last year's clearances, all grains except flaxseed registered a decline; wheat dropped 23.5 millions behind last year's level, wheat flour 3.7 millions, oats 18.9 million bushels, barley 10.7 millions and rye 2.2 millions. The minor increase in flaxseed overseas shipments of .6 millions had little significance in the overall total decline of 58.4 million bushels for the five grains and wheat flour combined. The total 1958-59 exports are still some 60.4 million bushels ahead of the long-run average of the Canadian yearly export movement.

During the season under review, Canada maintained its position as one of the leading world exporters of grain. The bread grain and flour clearances (including rye) represented 25.3% of the total world movement in these commodities. The total exports of Canadian oats and barley combined, represented 18% of the world exports, some 4% better than the ratio established in the crop season 1957-58.

Domestic Usage

Canada's domestic grain requirements for seed, feed and industrial processing for food and other products were expanded by 9 million bushels during 1958-59 to involve a total of 788 million bushels of wheat, oats, barley, rye and flaxseed combined. Crop year balances indicate that domestic disappearance

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accounted for slightly heavier quantities of all grains excepting rye. Canadian utilization of the two principal feed grains, oats and barley, has risen steadily each year since 1954-55 and these expanding feed grain requirements have been the principal factor in 137 million bushel growth in total domestic grain usage over that same period. Again, as in previous years, the bulk of the 1958-59 increase involved direct feeding from farm stocks with the portion of total domestic usage represented by grain handled through licensed elevator channels remaining relatively steady at 170 million bushels. Of this latter movement the industrial requirements for domestic flour, food, distilling, malting and crushing absorbed approximately 75 million bushels. Preliminary calculations of domestic usage by individual grains compared with revised data for the 1957-58 season are as follows: wheat 73.9 (61.6), oats 43.8 (44.3), barley 48.0 (43.0), rye 1.2 (1.5), flaxseed 3.1 (3.5) million bushels.

Carryover

The increase in domestic usage partially compensated for the decline in exports and the 1,165 million bushels combined export and domestic movement still exceeded 1958 new production by 117.7 million bushels, reducing the year-end total carryover by this amount. Individually by grains the principal reduction was in the closing stocks of wheat which totalled 549.0 millions according to the elevator returns and estimates of farm carryover, compared with the 639.5 million bushels in elevators and farm bins on August 1, 1958. The July 31, 1959, carryovers of oats and rye were down while those of barley and flaxseed reflected slight increases over the inward supply level, as follows, with 1958 data in brackets: oats 119.0 (154.9), barley 128.2 (118.2), rye 7.9 (10.1) and flaxseed 6.5 (5.6) million bushels, representing combined holdings east and west, on farms, in licensed elevators and in transit between positions at the year ending. The closing stock total of 810.6 million bushels of the five principal grains reflected a reduction of 309.6 million bushels during the past two years from the all-time record Canadian grain carryover held on July 31, 1957—1,120.2 million bushels.

Licensing and Bonding

The total licensed storage capacity at July 31, 1959 was 641,946,250 bushels including 11,381,400 bushels in supplementary annexes to country elevators. Licences were in effect for 5,428 country, terminal, mill and eastern elevators; an increase of 5,286,500 bushels in capacity and a decrease in licenses of 32 compared with the corresponding figures as at July 31, 1958. The major changes in capacity were an increase of 8.7 million bushels in country elevators and a decrease of 3.2 million bushels in supplementary storage.

Assistant Commissioners

Through its four Assistant Commissioners, the Board kept in close touch with the operation of licensed country elevators in the Western Division. During the year 1959, the Assistant Commissioners inspected 676 elevators in Manitoba, 1,047 in Northern Saskatchewan, 391 in Southern Saskatchewan, and 1,620 in Alberta, a total of 3,734. This inspection included checks on scales, sieves and certain other equipment; deductions for shrinkage and Prairie Farm Assistance Act Levy; and posting of current Board Regulations applying to country elevators.

Complaints originating from country points totalled 19, as compared with 31 in the previous year.

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Disposition of complaints investigated was as follows:

	Manitoba	Saskatchewan	Alberta	Total
No grounds for complaint.....	4	1	—	5
Settlement effected.....	2	7	1	10
Outside jurisdiction of Board.....	—	1	1	2
Complaint withdrawn.....	—	2	—	2
Totals.....	6	11	2	19

The Assistant Commissioners received and handled numerous inquiries on various matters related to country elevator operation. They also discussed accumulated overages with elevator agents concerned.

Prosecutions

No penalties were levied during 1959 for breaches of the Canada Grain Act or the Board's Regulations.

Shortages and Overages, Country Elevators

The smaller volume of country shipments during 1958-59 reduced the opportunities for weighing over country elevators and weigh-ups totalled 1,801 compared with 1,867 completed during the previous crop year. The audit of these weigh-ups indicated no significant change in the pattern of shortages and overages as will be noted from the summary table shown below:

ELEVATORS REPORTING	1958-59	1957-58
Shortages.....	534	493
Neither overages nor shortages.....	6	10
Overages of less than .25%.....	846	973
Overages of .25% to .50%.....	316	288
Overages over .50%.....	99	103
Total elevators weighed over.....	1,801	1,867

The Board summoned 101 agents of country elevator licensees to appear at hearings held at Winnipeg, Regina, Saskatoon, Calgary and Edmonton, in connection with excessively high overages. At these sessions, members of the Board interviewed the agents and examined records concerning their operations in the presence of senior officials of the companies concerned.

Regulations and Orders

Regulations No. 17 and No. 23 were revised, effective August 1, 1959, to bring their provisions into line with current administrative and statistical procedures.

Regulation No. 20 was amended on September 2, 1959, by deleting the word "trimming" from the paragraph containing the maximum charge for discharging grain to vessels at licensed eastern elevators in the Upper St. Lawrence area.

Order No. 1-1958-59 was extended to continue in effect during the 1959-60 crop year. This deals with delivery and shipment of artificially dried grain at country points.

By Order No. 1-1959-60, dated November 6, 1959, the Board established the grade designation "Rejected—Dried", applicable to western grain damaged through artificial drying.

Orders No. 2 and No. 3 dated November 20, 1959 and November 26, 1959, respectively, placed restrictions on the mixing of "Rejected—Dried" wheat and barley with other grades of grain at terminal elevators.

Committees on Grain Standards

The Board constituted Committees on Western and Eastern Grain Standards for the Crop Year 1959-60 as provided in Section 25 of the Canada Grain Act. Personnel of these Committees is listed in Appendix A.

A meeting of the Western Committee was held at Winnipeg on October 22, 1959. The members received numerous reports relating to quality of crops grown in the 1959 season and to various other matters in connection with grading of grain, and also selected and settled standard samples and standard export samples for various grades of Western grain.

The Eastern Committee met in Toronto on August 19, 1959, and in Montreal on October 28, 1959, and established standard samples for grades of grain grown in Eastern Canada.

Both groups authorized continued use of previously selected standard samples in instances where suitable recent samples for established grades were not available.

Inspection of Grain

Farmers in Western Canada generally had an extremely trying time in 1959. During spring and early summer, soil moisture varied from very low in the central and southern areas, to adequate in northern and western areas, and excessive in Eastern Manitoba.

Drought conditions continued in July and August from Southeastern Alberta, across Southern Saskatchewan, to Southwestern Manitoba; crops were light through much of this area. Crop prospects were generally good through the rest of the prairies, and much high grade grain was harvested in central Saskatchewan and Manitoba.

Except for the southeastern part, Alberta crops were caught in the fields by rain and snow. The inclement weather extended across the northern districts of Saskatchewan and Manitoba, and caught late crops in Eastern Manitoba. Extensive, but variable damage occurred from early fall frosts. Over a widespread area across the north, winter came early with crops still unharvested; as the soil froze solid enough to support machines, threshing of damp grain got underway, but many farmers intend to leave their crops in the fields in the hope of dry weather for threshing in the spring. Grain dryers are being used on farms in many districts.

Such varied conditions have produced a wide range of grades. In the dry belt, wheat graded from Manitoba No. 1 Northern to No. 5 and Special grades; the first wheat threshed in the central areas was mostly No. 2 and No. 3 Manitoba Northern. Frost and weathering has done much damage in the west, north and east; grades of Manitoba No. 4 Northern and No. 5 wheat are common there.

Barley in the southern areas was well matured but often contained thin kernels; much good malting barley was produced in the central area, but the weather reduced much of the northern barley to Feed grades.

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The first oats threshed were of good colour and quality, except for some of light weight from drought; late crops of oats have suffered much damage from weathering. Rye, which is confined more to southern and central regions, was generally harvested in good condition. Flaxseed that was threshed before the storms was practically all No. 1 Canada Western, but fall rains did much damage to this crop. The same applies to rapeseed; early crops were of excellent quality; late crops were severely damaged.

Promise of a substantial crop of Pea Beans in Southern Alberta led to the establishment of commercial grades by the Committee on Western Grain Standards; the colour was excellent, and the grade generally high as processing got underway.

Research

Preliminary information on the quality of different grades of 1959 Western grain crops was presented at the October meeting of the Committee on Western Grain Standards, and later in the fall was published as two protein maps and four crop bulletins. Steadily increasing demand for the two quarterly bulletins on bread wheat and durum wheat cargoes shows how useful they have become to overseas buyers of Canadian wheat. Studies have been continued on the quality of wheat exported by other countries; the samples are collected with the help of the Canadian Wheat Board and Canadian Government Trade Commissioners. Comprehensive records of Canadian grain at various stages of marketing have been maintained throughout the year.

The Laboratory has continued to work closely with the Grain Inspection Branch by providing such services as were required to aid in grading and associated problems. Among the problems caused by the wet harvest, the most important concerns grain drying, especially on farms. The Laboratory again offered a free testing service to farmers to help them to dry grain without damaging it. Tests of the quality of dried grain delivered by farmers to country elevators and of carlots shipped to terminal elevators have been made to assist the Chief Inspector with the grading of dried grain. Farmers and elevator agents have made good use of this service offered by the Laboratory, and by the end of the year many hundreds of samples had been submitted. The same laboratory service is being given to the Chief Inspector to assist him in controlling drying operations at terminal elevators.

As in previous years, the Laboratory made comprehensive quality tests on the tentative Standard and Export Standard samples prepared by the Chief Inspector, and provided information on the quality of samples used to make these Standard samples. Supervision of moisture testing and of equipment in inspection offices has continued; this equipment now includes electrical moisture meters as well as Brown-Duvel apparatus.

Laboratory services and technical advice to the Canadian Wheat Board, to Commercial Counsellors and Trade Commissioners, and to other Government agencies continued on about the same scale as last year, and close liaison has been maintained with cereal chemists in all parts of the world. The Laboratory has continued to take a leading part in quality studies of new varieties of spring and durum wheat and malting barley that are sponsored by the Associate Committee on Grain Research. An active program of basic and applied research was maintained throughout the year, and several papers on various subjects have been published in the scientific literature.

The third award of the National Research Council Postdoctorate Fellowship, tenable in the Laboratory, was made to Dr. M. K. Narayanan of the Central Food Technological Research Institute, Mysore, India, who arrived in November. Dr. Bloksma, the second Fellow, had returned to Holland in

July. Dr. R. Tkachuk and Dr. Cho Ching Tsen have joined the staff of the Basic Wheat Research Section, and Mr. G. C. Martin came to the Applied Wheat Research Section. Mr. R. R. Matsuo of the Basic Wheat Research Section, is on leave at the University of Alberta where he is studying for a Ph.D. degree; he was awarded a Fellowship presented by the Ogilvie Milling Company. Mr. M. H. Birnboim resigned his position as physicist at the end of the year. Total staff of the Laboratory is now 53.

During the year, the Laboratory was visited by several overseas technical missions and by scientists from various parts of the world. Dr. Anderson and Mr. Conacher, the Chief Grain Inspector, spent 20 days in the U.S.S.R. where they obtained information on grain production, handling and storage, grading, inspection, milling and baking, and on related research and development. Dr. Meredith attended the Congress of the European Brewing Convention in Rome, Italy, after which he visited Germany, Great Britain and Ireland. Other members of the professional staff attended scientific meetings in Canada and the United States.

Weighing of Grain

The staff of the Board's Weighing Branch provided usual weighing services at licensed elevators and investigated complaints relating to reports of excessive outturn shortages on carlot and cargo shipments. The Board's scale inspector carried out periodic tests and inspections of scales at licensed terminal and eastern elevators, and made special inspections when such were considered necessary. Further detailed information in regard to the work of this Branch is given in Appendix F.

Weighover of Stocks, Terminal and Eastern Elevators

In accordance with the provisions of Sections 139 and 140 of the Canada Grain Act, 30 terminal and 26 eastern elevators were weighed over during the 1958-59 crop year by members of the Board's Weighing and Inspection staffs.

Deferments into the following crop year were made at 6 terminal elevators at the Lakehead, 9 terminal elevators at other points, and at 5 eastern elevators. The Board found it necessary to grant these deferments to avoid delaying the handling and loading of grain required to meet export orders. However, it was possible to carry out seven of these deferred weighovers before the end of December, 1959.

Tables C-12 to C-14 of Appendix C contain the results of weighovers carried out in the 1958-59 crop year.

Entomological Investigations

The inspection of terminal grain elevator premises and grain stocks was continued in 1959. Most of the terminal elevators were visited at least once. Two trips were made to the Pacific Coast and three to the various Bay Port elevators. In all cases existing conditions were discussed with management and when necessary, instructions were issued on control measures.

As in 1958, the terminal elevators were essentially free from insect pests. The short courses in insect control put on by the Board are largely responsible for this condition.

A special visit was made to the Pacific Coast in April to start an insect control campaign in the terminals in that area. An improvement was noted in most of these elevators when they were inspected later in the season.

Regular visits were made to the various grain inspection offices of the Board to discuss insect control.

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Special attention has been given during the past two seasons to the various Canadian Government Elevators. In the interior ones grain is stored for long periods of time. Bottom samples were drawn from all bins and checked for insect infestation.

The opening of the St. Lawrence Seaway has created new problems in the handling of grain. Many overseas ships are now loading at interior points and a considerable amount of United States grain is being handled for export through Canadian elevators. A number of inspections were made of United States grain in store in Canadian elevators to check on its freedom from insect pests. The Board's entomologist, Dr. H. E. Gray, attended the Hearing on Plant Diseases and Insect Control on the St. Lawrence Waterway and Great Lakes in Duluth, Minn., in August. He also participated in a joint discussion with representatives of the Plant Quarantine Section of the United States Department of Agriculture and officers of the Canadian Plant Protection Division on "The Seaway—its insect problems and how to meet them" in December, at Detroit, Mich.

Contact was maintained with the grain and milling trade through attendance at the Annual Convention of the American Association of Operative Millers in Chicago in May.

Dr. Gray was an invited speaker at the Joint Meeting of the Entomological Society of America and the Entomological Society of Canada in December in Detroit, Mich., speaking on the subject "The Board of Grain Commissioners for Canada and its relation to Phyto-sanitary Measures".

Terminal and Eastern Complaints

During 1959, the Board directed the investigation of 39 complaints regarding shipments to Eastern Canadian and U.S.A. points. One of these complaints related to the quality of grain shipped, and the remainder to reports of excessive outturn shortages. The latter group included 23 on vessel shipments from Fort William and Port Arthur, 9 on vessel shipments from Eastern transfer ports, 3 on vessel shipments from other ports, and 3 on carlot shipments.

These complaints were disposed of as follows:

	Quality	Weight
No cause of reported discrepancy found.....	—	25
No grounds for complaint.....	—	1
Settlement effected.....	1	4
Not yet disposed of.....	—	8
Totals.....	1	38

Complaints on Export Shipments

A total of 48 complaints relating to shipments to overseas destinations were dealt with by the Board and its officials during 1959. Of this number, 34 concerned outturn weights reported from overseas, and 14 referred to some aspect of the quality of grain cargoes.

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Disposition was as follows:

	Quality	Weight
No cause of reported discrepancy found.....	—	24
No grounds for complaint.....	14	—
Settlement effected.....	—	2
Complaint withdrawn.....	—	4
Not yet disposed of.....	—	4
Totals.....	14	34

Statistics

Statistics relating to Canadian grain movement collected and compiled by the Board's Statistics Branch are presented in Appendix C of this report.

Information Program

The Board's mobile exhibit, which features samples of various types and qualities of grain and other displays relating to the Board's functions and operations, was placed on display at 24 points in Manitoba, Saskatchewan and Alberta during 1959. Two of the Board's Grain Inspectors were in charge of the exhibit and discussed grain grading and other matters coming under the Board's jurisdiction with farmers, elevator agents and other interested visitors.

The Board's offices were visited by a number of officials of the Foreign Trade service of the Department of Trade and Commerce, and by other individuals and groups from Overseas who wished to discuss matters related to the grain trade and obtain first-hand information about the functions and services of the Board. Other visitors during the year included groups of country elevator agents and agriculture students.

In addition to discussions with members and officials of the Board, arrangements were made for visitors to tour the Inspection Branch, the Research Laboratory and other branches as desired; also to view the colour motion picture film "Grain Handling in Canada".

Members of the Board and senior officials again accepted a number of invitations to address annual meetings of producer organizations and discuss topics of current interest related to the Board's work.

Canadian Government Elevators

Receipts of grain during the crop year 1958-59 at the Canadian Government Terminal Elevators operated by the Board at Moose Jaw, Saskatoon, Calgary, Edmonton, Lethbridge and Prince Rupert, were 18.9 million bushels, compared with 17.4 millions in the previous crop year. Total shipments were 16.7 millions, a reduction of 1.4 millions from the corresponding figure for 1957-58.

In the fiscal year 1958-59, revenues exceeded expenditures by the amount of \$730,453.

Lake Freight Rates

On March 10, 1959, under the provisions of Section 5 of the Inland Water Freight Rates Act, the Board issued Order No. 21 which revoked Order No. 20 of September 28, 1954. This had the effect of cancelling maximum freight rates

BOARD OF GRAIN COMMISSIONERS

established by the Board in Order No. 20 for the carriage of grain from Fort William or Port Arthur to other specified ports in Eastern Canada.

The average rates charged during the 1959 season of navigation are given in Table C-11 of Appendix C.

Prairie Farm Assistance Act

Under the provisions of Section 11 of the Prairie Farm Assistance Act, the Board continued to collect the one per cent levy on grain purchased by licensees under the Canada Grain Act. During the crop year 1958-59, the amount collected was \$6,674,000.20. Collections by the Board since the inception of the Act to July 31, 1959, total \$113,985,190.11.

Organization and Personnel

Mr. J. Rayner, Special Assistant, retired after 36 years' service with the Board.

Mr. A. G. McLean, Assistant Commissioner for Saskatchewan since 1949, retired and was succeeded by Mr. A. V. Svoboda.

Mr. A. Priscott retired from the position of Grain Inspector-in-charge at the Lakehead after 45 years' service with the Board. He was succeeded by Mr. A. H. Gibbons.

Mr. G. Edwards, Grain Inspector-in-charge at Calgary, retired and was succeeded by Mr. J. H. McLean, Grain Inspector-in-charge at Edmonton. Mr. E. H. Alexander was promoted to replace Mr. McLean, and Mr. F. G. Crowe was promoted to replace Mr. Alexander at Chatham, Ontario.

Mr. W. Millar retired from the position of Grain Inspector-in-charge at Saskatoon and was succeeded by Mr. J. L. A. Doray.

During 1959, the Licence and Bonding Branch was incorporated into the Statistics Branch and Mr. J. L. Freeman appointed as Licencing Officer.

At December 31, 1959, the Board's staff totalled 912 as opposed to 935 at December 31, 1958. The staff of the Canadian Government Elevators numbered 234, a reduction of 3 from the previous year.

A chart of the Board's Organization, including numbers of staff in the various offices at the close of the year, follows this report.

Expenditure and Revenue

Total expenditure and accrued revenue of the Board, exclusive of the Canadian Government Elevators, for the fiscal year 1958-59 compared with 1957-58 was as follows:

	1958-59	1957-58
Expenditure.....	\$4,471,770.15	\$4,295,129.93
Revenue.....	2,793,669.51	2,556,669.93

Expenditure for the nine months of the 1959-60 fiscal year to December 31, 1959, totalled \$2,992,012 as against \$3,054,553 for the comparable period during 1958-59.

TRADE AND COMMERCE

Cash revenue for the same nine-month period amounted to \$1,999,170 as compared with \$2,062,617 in the previous year.

Attached hereto is a series of Appendices which outline in greater detail the work of the Board's Branches.

Respectfully submitted,

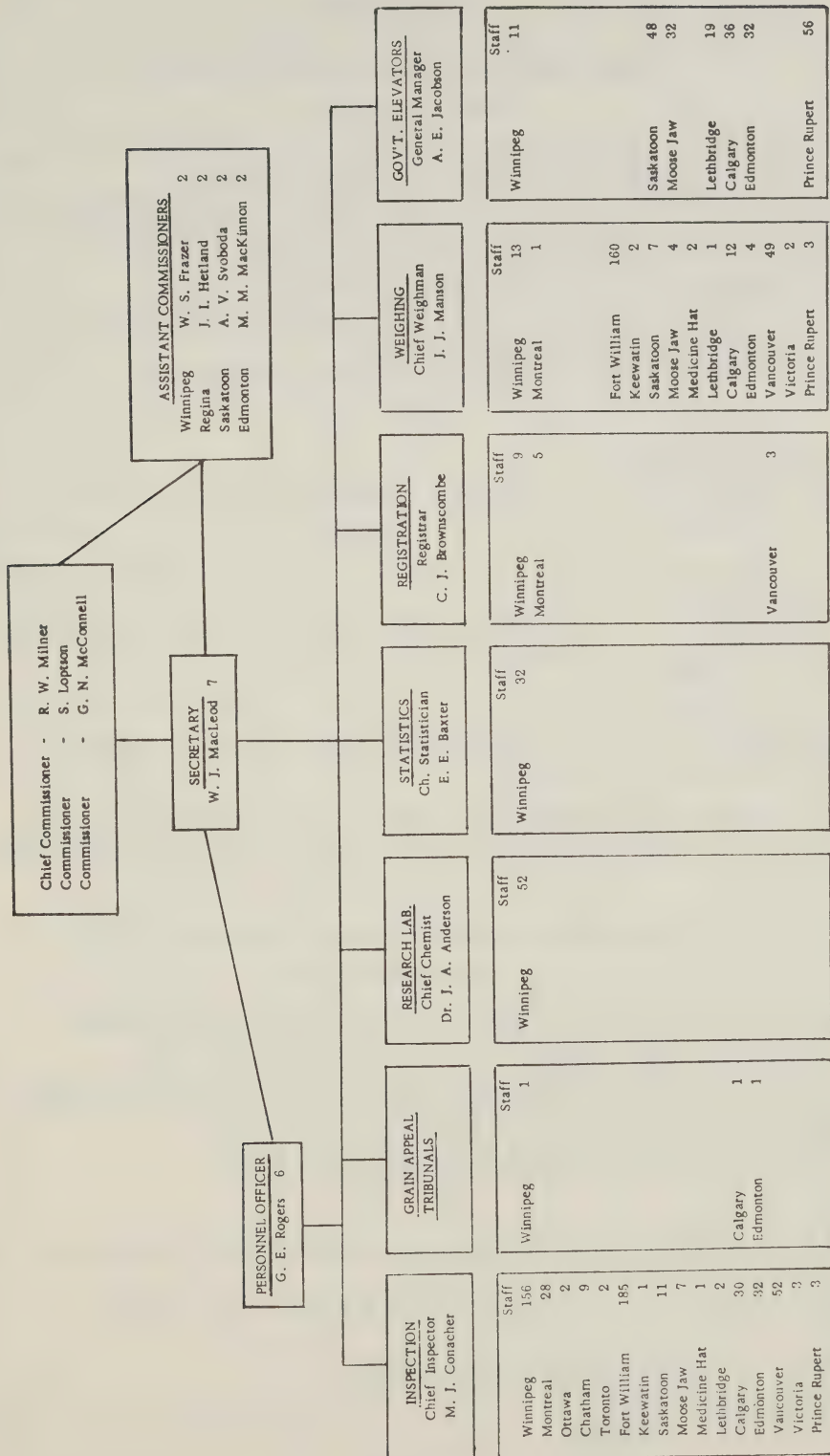
R. W. MILNER,
Chief Commissioner

S. LOPTSON,
Commissioner

W. J. MacLEOD,
Secretary

GEO. N. McCONNELL,
Commissioner

BOARD OF GRAIN COMMISSIONERS FOR CANADA



TRADE AND COMMERCE

APPENDIX A

Committee on Western Grain Standards,
Crop Year 1959-60

R. W. Milner, Chief Commissioner, Board of Grain Commissioners
S. Loptson, Commissioner, Board of Grain Commissioners
G. N. McConnell, Commissioner, Board of Grain Commissioners
M. J. Conacher, Chief Grain Inspector, Board of Grain Commissioners
Dr. J. A. Anderson, Chief Chemist, Grain Research Laboratory
D. E. Ross, Chairman, Grain Appeal Tribunal, Winnipeg
R. E. Forrester, Chairman, Grain Appeal Tribunal, Calgary
A. M. Creighton, Chairman, Grain Appeal Tribunal, Edmonton
Dr. D. G. Hamilton, Dominion Cerealist
L. A. McCorquodale, representing the millers of wheat flour

George Bennett..... }
W. H. Fairfield..... } Representing grain growers in Alberta
Uri Powell..... }
B. S. Plumer..... }

J. H. Harrison..... }
A. P. Gleave..... } Representing grain growers in Saskatchewan
J. Wellbelove..... }
L. L. Gray..... }
N. W. Strelloff..... }

W. J. Parker..... }
R. Barrett..... } Representing grain growers in Manitoba
Ray Mitchell..... }

G. Constable, representing Grain growers in British Columbia
L. Bell, representing Plant Products Division, Department of Agriculture

Committee on Eastern Grain Standards, as at
December 31, 1959

R. W. Milner, Chief Commissioner, Board of Grain Commissioners
S. Loptson, Commissioner, Board of Grain Commissioners
G. N. McConnell, Commissioner, Board of Grain Commissioners
M. J. Conacher, Chief Grain Inspector, Board of Grain Commissioners
W. G. Thomson, representing Montreal Board of Trade
E. D. Sullivan, representing Toronto Board of Trade
C. Gordon McAuley, representing exporters of grain

F. H. Dunsford..... }
H. Norman Davis..... } Representing millers of wheat in the Eastern Division
J. R. Heaney..... }
A. McLean..... } Representing grain growers in Ontario

G. C. Nichols, representing growers of corn
P. Blouin, Additional
A. Bowman, Additional

BOARD OF GRAIN COMMISSIONERS

APPENDIX B
Grain Appeal Tribunals

Winnipeg	Calgary	Edmonton
D. E. Ross (Chairman)	R. E. Forrester (Chairman)	A. M. Creighton (Chairman)
J. E. G. Hasell	G. R. Deeton	H. A. Haggarty
J. F. Lazenby	B. T. Jenkins	D. G. MacKeracher
Wm. E. McLeod	A. E. Jones	C. E. Sage
G. I. Rocan	A. E. Longhurst	J. F. Schofield
E. A. Sangster	W. G. McLeod	T. Stickney
R. C. Sproule	W. M. Pringle	N. Topolnitsky
V. J. Stubbs	J. Tranter	M. G. Wood
G. A. Turner	A. Watson	C. C. Young
N. Kawka (Secretary)		
Toronto	Montreal	
C. H. Coatsworth	P. J. Smith (Chairman)	
J. Elder	P. Blouin	
C. W. Heimbecker	S. Brooks	
J. Jervis	J. A. Byrne	
R. C. Pratt	E. B. Paterson	
E. D. Sullivan	R. Strauss	
A. L. Walker		
D. C. Kay, Jr. (Secretary)	Mrs. Muriel B. Hunter (Secretary)	

For information on Appeals of Carlot Inspections refer to Appendix E, Table E-6.

APPENDIX C

Statistics Branch

E. E. BAXTER, Chief Statistician

(A) STATISTICS

The Statistics Branch receives reports from all elevators licensed under the Canada Grain Act and from these returns compiles and publishes basic statistics relating to the storage and handling of grain within the Canadian elevator system. It prepares audit statements of the operations of all terminal and eastern elevators, verifies the insurance carried on grain stocks and handles the record details relating to the amounts collected as the 1% levy under the Prairie Farm Assistance Act. It supplies for review by the Board a detailed analysis of all grain handlings and co-operates with other Board offices in the maintenance of detailed records of principal operations.

(B) LICENSING

The Canada Grain Act provides that no railway company or vessel shall receive any western grain from any elevator or discharge any such grain into any elevator unless such elevator is licensed by the Board. The Act also specifies the conditions by which grain dealers, track buyers or grain commission merchants must be licensed in order to engage in contracts dealing with western grain by grade name. Such elevator and dealers' licences are issued by the Board through the licensing division of the Statistics Branch. This office also supervises the implementation of Section 79-3 by which all such licensees must be secured by Bond or otherwise for the performance of all obligations imposed upon them by the Act.

Introductory Comment

Effective January 1, 1959, the former Licence and Bonding Branch of the Board was amalgamated as a Division of the Statistics Branch. The licence records were adapted to machine accounting techniques as were the procedures for the issue and renewal of the actual licences. The publishing of statistical data relative to licences and elevator capacities became a function of the Statistical Division as did the responsibility for the administration of the collection and recording of the 1% levy under the Prairie Farm Assistance Act. New procedures following the amalgamation permitted staff adjustments and cost savings and also facilitated the work of the grain companies in connection with the licence applications and reports.

(A) STATISTICS

Excluding bulletins and publications, the responsibility for which was absorbed from the former Licensing Branch, there were only minor changes in the statistical bulletins released by this office during the 1958-59 crop year. The continuing program of refinements and adjustments was directed chiefly towards additional audit information and both analytical data and new statistics on grain movement developments arising out of the opening of the St. Lawrence Seaway. The office continued to work in close co-operation with the other branches of the Board both as a service unit and in the supply of administrative control statistics. This work was of particular importance to the Grain

BOARD OF GRAIN COMMISSIONERS

Research Laboratory in connection with historical studies conducted by that Branch. The machine records and facilities were also made available to the Canadian Wheat Board as assistance in their grain movement control.

Special studies of historical handling patterns on grain moving from the Canadian Lakehead to Eastern Canadian points were undertaken to supply reference data for analyses of the possible impact of the St. Lawrence Seaway on grain movement. Continuing current statistics were maintained on this Seaway traffic and, in particular, on the handling of United States grain in Eastern Canadian positions as a guide to the Board in their supervision of this phase of the Seaway traffic. The office also collaborated with the United States Department of Agriculture and with various U. S. Great Lakes port authorities in the development of comprehensive statistics on grain shipping through the inland water system.

The responsibility of the office under provisions of the Inland Water Freight Rates Act was met by the close examination of vessel charter confirmations covering all lake grain cargoes shipped from Fort William-Port Arthur during the 1959 season. This was of particular significance following the suspension of the maximum rate provisions at the beginning of the season. These examinations involved scrutiny of charter confirmations covering 865 separate inland cargoes clearing the Lakehead for Eastern Canadian ports in vessels of Canadian and Commonwealth registry from the opening of the 1959 season of navigation on April 20 to its closing on December 17.

The records and statements prepared in connection with the grain audits of terminal and eastern elevators under Sections 139 and 140 of the Canada Grain Act are summarized in the Tables C 12 to 14 inclusive of this Appendix. Detailed studies were made in addition to these statements to further facilitate the supervision of terminal operations. Audit examination was conducted in connection with the weighover of 1,801 of the 5,314 licensed public country elevators. These reports were in addition to the regular annual reports submitted for these same elevators covering 1958-59 operations. Special reports and tabulations were made from both the weighup and crop year statements for the use of the Board in their review of agents' and company operations.

The collection during the 1958-59 crop year of the 1% levy made by this office under provisions of the Prairie Farm Assistance Act is recorded at \$6,674,000, an increase of \$559,609 over collections recorded for the previous crop year. The inclusion of flaxseed and rapeseed for the first time in 1958-59 as grain under the Act resulted in the collection of \$511,389. Details of these collections are carried in Table C 15.

(B) LICENSING

During the initial licensing period of the crop year 1958-59 from August 1 to December 1, 1958, 5,484 licences were issued to 97 firms and individuals, 9 less than last year, to handle grain under the Canada Grain Act. Included in these were 51 licences granted to Track Buyers, Commission Merchants and Grain Dealers. In addition, country elevator licensees were authorized to use 247 off-site grain storage buildings of various types.

In the course of the crop year twenty-four elevator licences were cancelled by reason that, one was sold for a seed warehouse, three were destroyed by fire, ten were dismantled and ten were converted to annexes. Forty-five authorizations for grain storage buildings were also cancelled in the crop year as the stored grain was moved to terminal positions.

Twenty-seven country elevator licences were suspended during renovation and reconstruction of buildings. Twenty-one of these were reinstated; three were cancelled and three were still under suspension at July 31, 1959.

TRADE AND COMMERCE

Guarantee bonds in the amount of \$29,487,386.50 executed by 13 approved surety companies were deposited with the Board as security under Section 79 of the Canada Grain Act to cover operations of licensees during 1958-59. One licensee deposited negotiable Government bonds with a par value of \$1,000 in lieu of the usual form of surety bond.

As at July 31, 1959, with 5,428 elevator licences and 204 grain storage building authorities in force, the licensed storage capacity was 630,564,850 bushels in elevators and 11,381,400 bushels in grain storage buildings, an increase in the total licensed storage capacity of 5,286,500 bushels since July 31, 1958. The total licensed storage capacity by provinces is: Manitoba 60.9; Saskatchewan 220.4; Alberta 143.4; British Columbia 27.1; Ontario 153.2; Quebec 29.7; and the Maritimes 7.2 million bushels.

General

Summary grain statistics with respect to the 1958-59 crop year and the 1959 season of navigation are presented in table form following this section. Complete details are published in the various regular and periodical bulletins of the Branch, in the Branch's export release—Canadian Exports 1958-59, and in the "Grain Trade of Canada" issued jointly by this office and the Agriculture Division of the Dominion Bureau of Statistics. Details of licences issued under the Canada Grain Act are carried in the publication "Grain Elevators in Canada".

Table C-1.—Supply and Disposition of Canadian Grain, Crop Year 1958-59

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
SUPPLY					
Carry-over July 31st, 1958.....	639,453,741	154,915,634	118,165,290	10,061,953	5,652,016
Production in 1958.....	371,730,000	400,951,000	244,764,000	8,002,000	22,766,000
Total Supply.....	1,011,183,741	555,866,634	362,929,290	18,063,953	28,418,016
DISPOSITION					
Exported Overseas.....	285,460,578	5,624,785	54,225,136	1,109,477	14,276,255
Exported to the U.S.A.....	3,362,147	1,430,130	10,151,374	2,112,599	—
Consumed in Canada.....	173,359,552	429,833,019	170,399,565	6,922,072	7,618,635
Total Disposition.....	462,182,277	436,887,934	234,776,075	10,144,148	21,894,890
CARRY-OVER (July 31st, 1959)					
On Farms (Estimated).....	130,000,000	80,000,000	57,000,000	3,440,000	1,520,000
In Country, Private Terminal and Mill Elevators.....	258,633,105	28,155,097	51,971,887	1,909,892	1,652,192
In Semi-Public Terminal Elevators.....	74,228,265	5,274,343	13,523,505	845,132	1,542,547
In Store at and Afloat to Eastern Elevators.....	65,974,889	3,747,737	3,573,993	281,265	1,068,711
In Eastern Flour Mills.....	2,412,077	219,577	4,574	—	—
In Transit by Rail—Eastern and Western Divisions.....	17,594,039	1,581,946	2,079,256	539,449	739,676
In Store and in Transit to the United States.....	159,089	—	—	904,067	—
Total in Store July 31st, 1959	549,001,464	118,978,700	128,153,215	7,919,805	6,523,126

BOARD OF GRAIN COMMISSIONERS

**Table C-2.—Production and Producers' Marketings in Western Canada,
by Provinces, Crop Year 1958-59**

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
PRODUCTION (DBS estimate)					
Manitoba.....	58,000,000	60,000,000	44,000,000	1,200,000	4,700,000
Saskatchewan.....	192,000,000	83,000,000	87,000,000	2,500,000	11,300,000
Alberta and British Columbia.....	97,000,000	101,000,000	108,700,000	1,730,000	6,610,000
Totals.....	347,000,000	244,000,000	239,700,000	5,430,000	22,610,000
PRODUCERS' MARKETINGS					
(a) At Country Elevators					
Manitoba.....	46,804,819	14,168,631	23,782,881	999,131	3,491,438
Saskatchewan.....	222,270,889	15,260,619	49,268,457	2,259,105	8,848,276
Alberta.....	94,687,900	9,127,639	49,312,991	1,356,449	4,589,169
Totals.....	363,763,608	38,556,889	122,364,329	4,614,685	16,928,883
(b) At Interior Semi-Public Terminals					
Manitoba.....	34,287	49,829	24,843	—	—
Saskatchewan.....	—	—	—	—	—
Alberta.....	1,869	77,803	41,663	—	9,441
Totals.....	36,156	127,632	66,506	—	9,441
(c) At Interior Private and Mill Elevators					
Manitoba.....	290,513	88,347	72,995	—	112,358
Saskatchewan.....	2,015,851	56,916	100,667	449	80,947
Alberta.....	1,543,589	438,840	156,866	47,953	244,597
Totals.....	3,849,953	584,103	330,528	48,402	437,902
(d) Loaded over Platforms					
Manitoba.....	7,426	9,825	2,111	—	1,034
Saskatchewan.....	27,658	—	1,783	3,630	2,071
Alberta.....	37,797	1,941	73,008	—	90,145
Totals.....	72,881	11,766	76,902	3,630	93,250
Total Producers' Marketings					
Manitoba.....	47,137,045	14,316,632	23,882,830	999,131	3,604,830
Saskatchewan.....	224,314,398	15,317,535	49,370,907	2,263,184	8,931,294
Alberta.....	96,271,155	9,646,223	49,584,528	1,404,402	4,933,352
Totals.....	367,722,598	39,280,390	122,838,265	4,666,717	17,469,476

TRADE AND COMMERCE

Table C-3.—Receipts and Shipments of Canadian Grain at Terminal Elevators, Crop Year 1958-59

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Fort William-Port Arthur—					
Receipts.....	181,629,889	33,019,298	59,670,440	4,092,413	9,390,369
Shipments.....	180,436,821	35,104,658	63,219,147	4,499,292	10,504,347
Vancouver-New Westminster—					
Receipts.....	104,126,433	4,272,804	29,194,707	260,115	5,960,047
Shipments.....	106,194,761	5,023,195	28,347,182	335,710	5,973,926
Victoria—					
Receipts.....	1,256,610	344	2,566	271	678,092
Shipments.....	1,408,632	34,000	7,833	—	674,901
Prince Rupert—					
Receipts.....	—	—	9,045,909	—	—
Shipments.....	—	—	8,827,467	—	—
Churchill—					
Receipts.....	19,396,711	—	—	—	278
Shipments.....	18,409,322	320,006	—	—	—
Transcona—					
Receipts.....	445,609	53,436	40,752	—	3,300
Shipments.....	58,724	41,611	35,491	—	3,300
Calgary—					
Receipts.....	332,888	2,675	1,628,568	—	7,052
Shipments.....	221,071	5,878	1,726,509	—	7,052
Edmonton—					
Receipts.....	808,702	112,588	51,341	—	1,461
Shipments.....	116,834	119,746	48,754	—	1,461
Lethbridge—					
Receipts.....	4,080	—	5,056	—	50,705
Shipments.....	4,026	197	5,056	—	50,705
Moose Jaw—					
Receipts.....	10,065	—	—	—	—
Shipments.....	10,065	—	—	—	—
Saskatoon—					
Receipts.....	2,022,583	81,568	—	—	—
Shipments.....	807,013	22,294	—	—	151
Total Receipts.....	310,033,570	37,542,713	99,639,339	4,352,799	16,091,304
Total Shipments.....	307,667,269	40,671,585	102,217,439	4,835,002	17,215,843

Table C-4.—Shipments of Foreign Grain from Canadian Elevators into Canadian Consumer Channels, Crop Year 1958-59

From	United States Flaxseed	United States Corn	United States Soybeans	South African Corn
	bu.	bu.	bu.	bu.
Eastern Elevators.....	98,538	6,349,421	1,862,927	1,500,558
Fort William-Port Arthur.....	—	—	—	—
Interior Terminals.....	—	—	—	—
Interior Private and Mill Elevators.....	—	809,400	—	—
Pacific Coast Elevators.....	—	—	—	—

BOARD OF GRAIN COMMISSIONERS

Table C-5.—Primary Receipts and Shipments at Eastern Elevators, Crop Year 1958-59

	Receipts	Shipments
CANADIAN GRAIN—	bu.	bu.
Wheat.....	170,382,300	179,236,492
Oats.....	30,826,198	32,786,720
Barley.....	37,399,010	39,265,938
Rye.....	1,696,924	1,757,174
Flaxseed.....	8,876,100	8,750,022
Corn.....	2,125,814	1,875,228
Soybeans.....	3,465,101	3,542,214
Buckwheat.....	148,810	151,875
Peas.....	199,887	195,800
Rapeseed (lbs.).....	58,651,730	58,575,660
Mixed Grain (lbs.).....	—	56,000
Sample Grain (lbs.).....	4,048,270	4,703,620
UNITED STATES GRAIN—		
Wheat.....	1,851,025	1,804,300
Oats.....	680,919	680,841
Barley.....	2,174,188	2,078,837
Rye.....	458,387	458,360
Flaxseed.....	5,707,858	5,619,267
Corn.....	23,335,407	23,028,697
Soybeans.....	3,745,973	3,604,615
FOREIGN GRAIN—		
South African Corn.....	1,572,669	1,521,558

Table C-6.—Supply and Disposition of Canadian Grain in United States Positions, Crop Year 1958-59

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
SUPPLY—					
In Store and in Transit U.S.A.....	—	—	175,786	64,482	—
Receipts direct from Canada.....	4,031,846	1,430,130	9,975,588	2,048,117	—
Total Supply.....	4,031,846	1,430,130	10,151,374	2,112,599	—
DISPOSITION—					
Exported.....	—	—	—	—	—
Returned to Canada.....	510,610	—	—	—	—
Used Domestically.....	3,362,147	1,430,130	10,151,374	2,112,599	—
Total Disposition.....	3,872,757	1,430,130	10,151,374	2,112,599	—
In Store and in Transit July 31, 1959	159,089	—	—	—	—

TRADE AND COMMERCE

Table C-7.—Exports of Canadian Wheat, by Seaboard Sectors, by Months, Crop Year 1958-59

	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via Fort William- Port Arthur Direct	Via United States Atlantic Ports	United States Imports ¹		Total Wheat and Wheat Flour
						For Domestic Use	Milling in Bond	
1958	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
August.....	8,752,225	6,400,940	7,848,160	53,215	—	97,745	—	26,052,325
September.....	3,591,628	5,036,784	7,276,341	54,581	—	153,052	—	18,419,130
October.....	8,753,732	13,694,865	2,656,408	111,134	—	206,830	108,572	28,983,553
November.....	5,822,968	15,114,434	—	87,309	—	412,189	—	24,703,924
December.....	8,635,099	10,314,637	—	—	—	640,762	273,344	23,143,800
1959								
January.....	8,726,367	9,137,428	—	—	—	29,000	—	21,418,366
February.....	10,500,667	7,166,576	—	—	—	18,046	—	20,244,690
March.....	10,845,424	7,711,597	—	—	—	21,676	—	21,119,418
April.....	10,062,276	8,843,184	—	—	—	13,000	—	22,214,100
May.....	12,681,863	12,622,412	—	2,633,192	—	157,405	925,028	32,160,347
June.....	12,009,641	14,439,219	—	1,152,783	—	138,938	101,272	31,699,056
July.....	6,165,305	8,374,967	628,413	867,022	—	65,288	—	18,664,016
Total Crop Year 1958-59.....	106,547,195	118,857,043	18,409,322	4,979,236	—	1,953,931	1,408,216	288,822,725
Total Crop Year 1957-58.....	129,667,667	120,320,453	18,395,046	143,405	—	5,370,162	1,795,924	316,073,495
5-Year Average 1953-54 to 1957-58.....	105,071,131	112,724,409	14,138,003	60,962	173,760	5,079,506	1,403,022	278,808,445

¹Compiled from returns of Canadian elevator licensees and shippers and advice from American grain correspondents.

²Canadian Customs returns converted to bushels—unadjusted for time lag.

³Revised—adjusted to remove effect of time lag in reports made by the Customs.

BOARD OF GRAIN COMMISSIONERS

Table C-8.—Overseas Exports of Canadian Grain, by Seaboard Sectors, by Grades, Crop Year 1958-59

Grades	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via Ft. William- Port Arthur direct	Via United States Atlantic Ports	Total
	bu.	bu.	bu.	bu.	bu.	bu.
WHEAT—						
1 Manitoba Northern.....	596,973	379,973	186,667	—	—	1,163,613
2 Manitoba Northern.....	30,438,674	34,173,948	9,448,082	2,131,003	—	76,191,707
3 Manitoba Northern.....	37,655,713	39,309,098	5,034,392	1,822,921	—	83,822,124
4 Manitoba Northern.....	25,622,428	20,413,986	1,236,435	594,804	—	47,867,653
No. 5.....	10,176,000	3,981,588	2,286,224	—	—	16,443,812
No. 6.....	499,544	—	—	—	—	499,544
1 Alberta Red Winter.....	160,644	—	—	—	—	160,644
2 Alberta Winter.....	427,869	—	—	—	—	427,869
Other Western.....	969,350	1,364,064	217,522	430,508	—	2,981,444
Eastern.....	—	3,155,305	—	—	—	3,155,305
2 C.W. Amber Durum.....	—	2,392,417	—	—	—	2,392,417
3 C.W. Amber Durum.....	—	4,002,863	—	—	—	4,002,863
Ex. 4 C.W. Amber Durum.....	—	4,015,414	—	—	—	4,015,414
4 C.W. Amber Durum.....	—	5,668,387	—	—	—	5,668,387
Totals.....	106,547,195	118,857,043	18,409,322	4,979,236	—	248,792,796
OATS—						
3 C.W.....	—	205,544	—	86,413	—	291,957
Extra 1 Feed.....	1,389,658	477,957	—	115,294	—	1,982,909
1 Feed.....	1,965,714	102,352	—	—	—	2,068,066
Mixed Feed.....	362,024	214,482	313,829	—	—	890,335
Eastern.....	—	391,518	—	—	—	391,518
Totals.....	3,717,396	1,391,853	313,829	201,707	—	5,624,785
BARLEY—						
2 C.W. Six-Row.....	2,365	—	—	—	—	2,365
3 C.W. Six-Row.....	4,162,300	58,187	—	35,267	—	4,255,754
2 C.W. Two-Row.....	515,340	—	—	—	—	515,340
3 C.W. Two-Row.....	11,499,354	49,945	—	—	—	11,549,299
1 Feed.....	17,196,458	2,160,741	—	—	—	19,357,199
2 Feed.....	3,430,934	9,749,659	—	5,198,313	—	18,378,906
Tough 2 Feed.....	—	—	—	166,273	—	166,273
Totals.....	36,806,751	12,018,532	—	5,399,853	—	54,225,136
RYE—						
2 C.W.....	302,719	771,167	—	—	—	1,073,886
3 C.W.....	15,963	19,628	—	—	—	35,591
Totals.....	318,682	790,795	—	—	—	1,109,477
FLAXSEED—						
1 C.W.....	6,475,469	4,719,579	—	1,332,930	—	12,527,978
2 C.W.....	180,486	1,434,203	—	12,308	—	1,626,997
3 C.W.....	61,077	40,203	—	20,000	—	121,280
Totals.....	6,717,032	6,193,985	—	1,365,238	—	14,276,255

Table C-9.—Overseas Exports of Canadian Grain, by Ports, Crop Year 1958-59

Loaded at	Wheat (All varieties)	Oats	Barley	Rye	Flaxseed	Total All Grains
	bu.	bu.	bu.	bu.	bu.	bu.
Vancouver-New Westminster.....	105,162,912	3,717,396	27,979,284	318,682	6,036,267	143,214,541
Victoria.....	1,384,283	—	—	—	680,765	2,065,048
Prince Rupert.....	—	—	8,827,467	—	—	8,827,467
Churchill.....	18,409,322	313,829	—	—	—	18,723,151
Fort William-Port Arthur direct.....	4,979,236	201,707	—	—	—	11,946,034
Samia.....	—	—	5,399,853	—	1,365,238	80,571
Montreal.....	49,195,811	1,066,077	80,571	—	—	62,234,345
Sorel.....	17,760,104	65,793	6,473,423	790,795	4,708,239	20,650,091
Three Rivers.....	12,365,906	177,617	2,824,194	—	171,675	13,466,396
Quebec.....	9,867,788	—	1,842,431	—	—	11,710,219
Saint John.....	2,734,345	—	—	—	—	2,734,345
West Saint John.....	13,699,323	82,366	46,715	—	1,190,311	15,018,715
Halifax.....	13,233,766	—	—	—	123,760	13,357,526
Totals—Canadian Ports.....	248,792,796	5,624,785	54,225,136	1,109,477	14,276,255	324,028,449
U.S.A. Ports.....	—	—	—	—	—	—
Totals to Overseas.....	248,792,796	5,624,785	54,225,136	1,109,477	14,276,255	324,028,449
Wheat Flour. ¹	36,667,782	—	—	—	—	36,667,782
U.S.A. Imports ²	3,362,147	1,430,130	10,151,374	2,112,599	—	17,056,250
Grand Totals.....	288,822,725	7,054,915	64,376,510	3,222,076	14,276,255	377,752,481

¹Canadian Customs Returns—converted to bushels.²Compiled from returns of Canadian Elevator licensees and shippers and advice from American grain correspondents.

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Table C-10.—Tough and Damp Grain Dried, by Storage Position, Crop Year 1958-59

	Artificial Drying			Natural Drying	Total
	Tough	Damp	Tough and Damp		
LAKEHEAD	bu.	bu.	bu.	bu.	bu.
Wheat.....	258,494	1,366,794	1,625,288	7,340,767	8,966,055
Durum.....	187	6,062	6,249	58,603	64,852
Oats.....	—	—	—	549,766	549,766
Barley.....	80,330	553,553	633,883	2,928,820	3,562,703
Rye.....	—	1,916	1,916	101,233	103,149
Flaxseed.....	7,314	9,910	17,224	354,648	371,872
Totals.....	346,325	1,938,235	2,284,560	11,333,837	13,618,397
PACIFIC COAST					
Wheat.....	234,419	20,885	255,304	4,563,635	4,818,939
Oats.....	—	—	—	11,352	11,352
Barley.....	297,792	9,984	307,776	836,999	1,144,775
Rye.....	—	—	—	2,002	2,002
Flaxseed.....	—	—	—	63,564	63,564
Totals.....	532,211	30,869	563,080	5,477,552	6,040,632
INTERIOR					
Wheat.....	—	1,279	1,279	219,054	220,333
Barley.....	—	—	—	150	150
Totals.....	—	1,279	1,279	219,204	220,483
CHURCHILL					
Wheat.....	—	—	—	57,946	57,946
Totals, All Positions.....	878,536	1,970,383	2,848,919	17,088,539	19,937,458

TABLE C-11.—Weighted Average Lake Freight Rates on Canadian Grain from Fort William-Port Arthur, Season of Navigation 1959

Port of Discharge	Wheat	Oats	Barley	Rye	Flaxseed
Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	4.725	(cents per bushel)			—
Port Colborne.....	6.776	4.385	4.835	4.5	—
Toronto.....	7.223	6.189	6.818	6.926	—
Kingston.....	8.628	6.547	7.164	7.0	7.747
Prescott.....	8.066	7.578	7.738	—	—
Montreal (Direct).....	13.324	7.286	7.660	—	—
Montreal via Bay Ports.....	—	10.671	12.881	13.670	14.979
Montreal via Port Colborne.....	14.069	—	13.25	—	—
Montreal via Toronto.....	14.0	10.0	12.427	—	15.0
Montreal via Kingston.....	14.0	11.0	13.25	—	—
Montreal via Prescott.....	13.994	11.076	13.25	14.0	15.758
Sorel (Direct).....	13.987	10.809	13.080	14.0	15.0
Sorel via Port Colborne.....	13.126	11.145	13.285	—	—
Sorel via Prescott.....	14.0	—	—	—	—
Three Rivers (Direct).....	14.0	—	12.25	—	—
Three Rivers via Bay Ports.....	13.0	10.129	12.25	—	—
Three Rivers via Port Colborne.....	14.0	—	—	—	—
Three Rivers via Toronto.....	14.0	—	14.0	—	—
Three Rivers via Prescott.....	14.0	—	13.25	—	—
Quebec (Direct).....	14.0	—	—	—	—
Quebec via Port Colborne.....	13.051	10.557	12.679	—	—
Quebec via Prescott.....	15.116	10.0	13.504	—	—
Halifax (Direct).....	14.0	—	13.0	—	—
Buffalo.....	18.084	16.834	17.708	—	—
Chicago.....	8.049	6.943	7.759	7.835	—
Duluth-Superior.....	7.0	—	6.505	6.388	—
Detroit.....	6.320	—	5.841	—	—
Manitowoc.....	—	—	7.225	—	—
Milwaukee.....	—	—	6.460	—	—
	—	—	6.7	—	—

Note.—Rates originally quoted in United States Funds have been converted to Canadian currency at the prevailing rates of exchange.

Table C-12. — Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC TERMINAL Elevators, Crop Year 1958-59

Date of Weighover	Licensee	EXCESS					DEFICIENCY					
		No. 1 Manitoba Hard	No. 1 Manitoba Northern	No. 2 Manitoba Northern	No. 3 Manitoba Northern	No. 1 Canada Western Garnet	No. 1 Manitoba Hard	No. 1 Manitoba Northern	No. 2 Manitoba Northern	No. 3 Manitoba Northern	No. 1 Canada Western Garnet	No. 2 Canada Western Garnet
	PORT WILLIAM-PORT ARTHUR Canadian Consolidated Grain Co. Ltd.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
Dec. 29, 1958- Jan. 6, 1959.....	Empire.....	—	—	—	4,879.2	—	—	—	—	6.2	—	—
Dec. 16-22, 1958.....	Thunder Bay.....	—	—	—	—	—	—	—	135.9	3.4	11.3	—
Oct. 22-31, 1958.....	Eastern Terminal Elevator Co. Ltd.....	—	—	5,591.2	—	—	—	—	7,923.1	—	18,675.8	—
Dec. 15-22, 1958.....	Federal Grain Ltd. Northwestern.....	—	518.7	—	—	—	—	—	—	10,697.1	4,602.4	—
Dec. 19-24, 1958.....	Stewart.....	—	—	—	—	—	—	—	1,255.7	18,469.6	13,072.0	—
Dec. 8-11, 1958.....	Port William Elevator Co. Ltd. Elevator "E".....	—	—	—	—	—	—	—	—	—	—	—
Dec. 10-17, 1958.....	Elevator "F".....	—	—	—	—	—	—	29.4	515.9	20.8	—	—
Dec. 8-11, 1958.....	Lakehead Terminals Ltd.....	—	—	—	—	—	—	4.5	137.5	278.5	—	—
Jan. 12-22, 1959.....	Manitoba Pool Elevators Elevator No. 1.....	—	—	—	—	—	—	38.0	1,558.1	6,083.6	—	—
Jan. 6-15, 1959.....	Elevator No. 2.....	—	—	—	—	—	—	159.2	1,175.7	7,613.9	—	—
Dec. 22-29, 1958.....	Elevator No. 3.....	—	—	—	—	—	—	—	230.3	1,292.2	—	—
Jan. 19-23, 1959.....	Elevator No. 9.....	—	—	—	—	—	—	17.2	4,346.4	8,986.4	—	—
Dec. 11-15, 1958.....	McCabe Grain Co. Ltd.....	—	—	—	—	—	—	13.7	2,008.2	5,219.2	—	—
Dec. 17-24, 1958.....	National Grain Co. Ltd.....	—	—	—	—	—	—	121.6	7,488.2	13,448.9	—	—
Dec. 8-16, 1958.....	Ogilvie Flour Mills Co. Ltd.....	—	—	—	—	—	—	3.5	11,882.6	1,829.0	—	—

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Date of Weighover	Licensee	EXCESS						DEFICIENCY					
		No. 1 Manitoba Hard	No. 1 Manitoba Northern	No. 2 Manitoba Northern	No. 3 Manitoba Northern	No. 1 Canada Western Garnet	No. 2 Canada Western Garnet	No. 1 Manitoba Hard	No. 1 Manitoba Northern	No. 2 Manitoba Northern	No. 3 Manitoba Northern	No. 1 Canada Western Garnet	No. 2 Canada Western Garnet
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
Dec. 29, 1958	Saskatchewan Wheat Pool	—	—	—	—	—	—	—	20,580.5	13,035.9	10,576.6	—	—
Jan. 6, 1959	Elevator No. 6.....	—	—	—	—	—	—	—	1,744.5	7,007.5	9,500.3	—	—
Dec. 15-22, 1958	Elevator No. 7.....	—	—	—	—	—	—	—	—	—	—	—	—
Dec. 10-13, 1958	Superior Elevator Co. Ltd.....	—	—	—	—	—	—	—	10.6	83.7	529.5	—	—
Aug. 28-Sept. 9, 1958	VANCOUVER-NEW WESTMINSTER Burrard Terminals Ltd.....	—	53.0	—	4,375.9	—	—	—	—	4,186.6	—	—	—
June 17-26, 1959	Pacific Elevators Ltd. Elevator No. 1 and 3.....	—	—	—	—	—	—	—	662.4	53,460.1	76,045.8	—	—
Aug. 21-26, 1958	Saskatchewan Wheat Pool Elevator No. 2 (N.H.B.).....	—	—	—	—	—	—	—	201.0	13,583.5	1,714.9	—	—
Aug. 29-Sept. 11, 1958	United Grain Growers Ltd. Elevator No. 3 (N.H.B.).....	—	—	—	—	—	—	—	71.7	1,219.2	15,831.7	—	—
Feb. 23-27, 1959	VICTORIA, B.C. Victoria Elevator Ltd.....	—	36.0	—	1,252.7	—	—	—	—	506.3	—	—	—
April 28-30, 1959	PRINCE RUPERT, B.C. Canadian Government Elevator.....	—	—	—	—	—	—	—	—	—	—	—	—
Oct. 15-24, 1958	CHURCHILL, MAN. National Harbours Board.....	—	—	33,332.6	—	—	—	—	36,479.6	—	6,265.9	—	—

TRADE AND COMMERCE

Table C-13.—Excesses and Deficiencies in Specified Grades of Wheat disclosed by Weighovers of Grain Stored in PRIVATE TERMINAL Elevators, Crop Year 1958-59

Date of Audit, December 11, 1958	Winnipeg, Manitoba Canada Malting Co. Ltd.	
	Excess	Deficiency
	bu.	bu.
No. 1 Manitoba Hard.....	—	—
No. 1 Manitoba Northern.....	—	—
No. 2 Manitoba Northern.....	—	5.1
No. 3 Manitoba Northern.....	—	40.3
No. 1 Canada Western Garnet.....	—	—
No. 2 Canada Western Garnet.....	—	—

No wheat of the above grades was handled or in store in the following elevators:

Date of Weighover	Elevator Company	Location
August 22nd, 1958.....	Canada Malting Co. Ltd.....	Calgary, Alberta
January 22nd, 1959.....	Canada Malting Co. Ltd.....	Port Arthur, Ontario
December 8th, 1958.....	Dominion Malting Co. Ltd..	Transcona, Manitoba
January 5th, 1959.....	National Grain Feed Mill.....	Fort William, Ontario

Table C-14.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1958-59

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1959			bu.	bu.
Mar. 16-19	COLLINGWOOD Collingwood Terminals Ltd.....	Canada Western Wheat.....	—	662.6
		Canada Western Oats.....	—	3,082.3
		Canada Western Barley.....	1,497.6	—
		Canada Western Rye.....	83.5	—
		South African Corn.....	—	1.0
Mar. 30- April 8	GODERICH Goderich Elevator and Transit Co. Ltd.....	Canada Western Wheat.....	—	2,272.6
		Canada Western Oats.....	1,017.0	—
		Canada Western Barley.....	—	439.6
		Canada Western Rye.....	73.2	—
		Canada Western Sample Grain....	—	*100
		Canada Western Screenings.....	—	*24,340
		U.S.A. Corn.....	—	539.6
Mar. 19-26	Upper Lakes Shipping Ltd.....	Canada Western Wheat.....	—	1,016.1
		Canada Western Oats.....	—	2,948.0
		Canada Western Barley.....	385.8	—
		Canada Western Buckwheat.....	—	31.2
		Canada Western Screenings.....	*33,260	—
		U.S.A. Corn.....	—	666.7
Mar. 23- April 4	HUMBERSTONE Robin Hood Flour Mills Ltd.....	Canada Western Wheat.....	—	13,633.5
		Canada Western Oats.....	—	333.2
		Canada Western Barley.....	—	467.8
Mar. 16-25	KINGSTON Canada Steamship Lines Ltd.....	Canada Western Wheat.....	—	15,446.9
		Canada Western Oats.....	—	2,062.3
		Canada Western Barley.....	—	5,548.5
		Canada Western Rye.....	—	181.5
		Canada Western Flaxseed.....	—	2,403.7
		Canada Western Buckwheat.....	—	29.4
		U.S.A. Rye.....	—	15.4
		U.S.A. Flaxseed.....	—	60.9
		U.S.A. Corn.....	—	1,375.8

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Table C-14.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop year 1958-59—Continued

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1959			bu.	bu.
May 21	LAKEFIELD Lakefield Elevator Co. Ltd.....	Canada Western Wheat.....	—	2,943.5
Mar. 3-16	MIDLAND Canada Steamship Lines Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley.....	— 40.2 928.3	4,695.1 — —
Mar. 2-13	Canadian National Railways.....	Canada Western Wheat..... Canada Western Barley..... U.S.A. Corn.....	— — —	6,998.4 50.0 184.9
Feb. 11-26	Midland-Simcoe Elevator Co. Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley.....	— — —	5,018.1 6,001.9 363.5
Feb. 18-26	Renown Investments Ltd.....	Canada Western Wheat..... Canada Western Oats..... U.S.A. Corn.....	— 307.9 —	2,098.6 — 168.6
Mar. 10-13	MONTREAL Dominion Elevator Ltd.	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Corn..... S.A. Corn.....	— — — — — — —	2,196.9 1,251.1 2,227.7 *2,360 *43,620 235.9 15.9
Mar. 23-30	OWEN SOUND Great Lakes Elevator Co. Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Corn.....	— — — — — — —	6,291.1 1,467.3 1,346.3 5.5 *2,380 *9,180 953.1
Mar. 16-19	PORT COLBORNE Maple Leaf Milling Co. Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... U.S.A. Corn.....	— — — — — —	9,836.3 845.2 1,470.8 140.2 54.6 19.2
Sept. 3-5 1958	National Harbours Board.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Buckwheat..... U.S.A. Flaxseed..... U.S.A. Corn.....	— — — — — — — —	20,365.5 1,709.9 8,035.5 220.5 3,085.3 377.2 2,082.9 337.3
Mar. 17-25	PORT McNICOLL Canadian Pacific Railway Co.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... U.S.A. Corn.....	— — — —	4,765.4 58.3 279.8 219.6
Feb. 24- Mar. 6	PRESCOTT National Harbours Board.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... U.S.A. Flaxseed..... U.S.A. Corn.....	— — — 663.8 — — —	6,963.6 5,390.0 10,294.0 — 1,996.9 645.6 4,031.6

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Table C-14.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1958-59—Concluded

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1959 Feb. 24- Mar. 12	QUEBEC National Harbours Board.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Corn..... S.A. Corn.....	bu. — — — — — —	bu. 9,742.4 3,795.3 4,038.9 *9,580 *7,270 383.1 115.6
April 1-16	SARNIA Sarnia Elevator Co. Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Flaxseed.....	— — — — — — —	19,507.6 5,118.5 1,792.9 355.8 *1,180 *3,770 62.6
Feb. 10-23	SOREL North American Elevators Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Flaxseed..... Canada Western Soybeans..... U.S.A. Corn.....	— — — — — —	7,181.5 575.2 4,682.4 50.0 23.4 66.9
Mar. 9-26	TORONTO Toronto Elevators Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Corn..... U.S.A. Soybeans.....	— — — — — — — — 8,805.9	4,658.8 1,878.4 1,902.1 .9 829.3 *2,700 *8,850 532.7 —
May 21	PETERBOROUGH Trent Elevator Co.....	Canada Western Wheat.....	—	519.7
Mar. 31- April 7	WALKERVILLE Hiram Walker & Sons Grain Corp. Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... U.S.A. Corn.....	— — 273.4 — —	2,904.8 264.5 — 79.7 74.9
April 10	SAINT JOHN Canadian National Railway Co.....	Canada Western Wheat.....	—	2,276.9
April 14	WEST SAINT JOHN Canadian Pacific Railway Co. Elevator "B".....	Canada Western Wheat..... Canada Western Barley..... Canada Western Flaxseed..... Canada Western Peas..... Canada Western Rapeseed.....	— — — — —	2,860.3 14.6 322.3 10.4 *7,080
April 16	Canadian Pacific Railway Co. Elevator "H".....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Flaxseed..... Canada Western Peas..... Canada Western Rapeseed.....	— — — — — —	2,654.8 51.5 14.6 421.6 44.3 *14,430
April 20-24	HALIFAX National Harbours Board.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Flaxseed..... Canada Western Peas..... Canada Western Rapeseed..... S.A. Corn.....	— — — — — —	8,648.4 7.5 77.3 2.3 *320 153.0

*Pounds.

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**Table C-15.—Amounts Collected and Grain Purchased under the One Per Cent Levy,
Prairie Farm Assistance Act, Crop Year 1958-59**

Province	Wheat	Oats	Barley	Rye	Flaxseed	Rapeseed	Total
	\$	\$	\$	\$	\$	\$	\$
Manitoba.....	629,882.86	72,424.67	193,868.94	9,005.44	101,201.97	2,628.04	1,009,011.92
Saskatchewan.....	3,030,090.94	77,413.86	401,569.76	22,444.20	234,896.75	37,330.21	3,803,745.72
*Alberta.....	1,273,397.60	46,851.58	392,929.96	12,731.30	127,836.80	7,495.32	1,861,242.56
Totals.....	4,933,371.40	196,690.11	988,368.66	44,180.94	463,935.52	47,453.57	6,674,000.20
* Includes Peace River area in B.C.							
Penalties on late filing of returns.....							1.50
Total collections Aug 1., 1958 to July 31, 1959							6,674,001.70

	GRAIN PURCHASES						
	thousands of bushels						
Manitoba.....	47,110	13,928	23,357	1,004	3,634	195	89,228
Saskatchewan.....	222,117	15,373	49,061	2,577	8,590	3,942	301,660
Alberta.....	95,843	9,468	49,167	1,472	4,652	1,378	161,980
Totals.....	365,070	38,769	121,585	5,053	16,876	5,515	552,863

**Table C-16.—Licences in Force and Storage Capacity as at July 31st, 1959
and a Year Ago**

Kind of Licence	Licences in force		Licensed storage capacity	
	July 31		July 31	
	1959	1958	1959	1958
Country Elevators.....	5,317	5,348	378,071,540	369,493,750
Supplementary Annexes to Country Elevators.....	*	*	11,381,400	14,551,690
Terminals and Mill Elevators.....	80	81	158,266,010	158,312,010
Eastern Elevators.....	31	31	94,227,300	94,302,300
Track Buyers, Commission Merchants and Grain Dealers.....	49	49	†	†
Totals.....	5,477	5,509	641,946,250	636,659,750

*204 buildings at July 31, 1959 and 367 buildings at July 31, 1958.

†These licences do not cover grain storage facilities.

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Table C-17.—Number and Kind of Licences Issued and Licensed Storage Capacity, as at December 1st each year for the Past Five Years

Kind of Licence	1959	1958	1957	1956	1955
NUMBER OF LICENCES					
Public Country Elevator.....	5,304	5,314	5,343	5,354	5,369
Private Country Elevator.....	8	8	10	9	10
Mill Elevator.....	34	35	33	32	33
Public Terminal Elevator.....	—	—	—	5	5
Semi-Public Terminal Elevator.....	40	40	40	34	35
Private Terminal Elevator.....	5	5	5	5	5
Eastern Elevator.....	31	31	30	30	30
Track Buyer.....	20	22	21	21	21
Commission Merchant.....	22	24	23	23	25
Grain Dealer.....	5	5	5	5	7
Totals.....	5,469	5,484	5,510	5,518	5,540
Licensed Capacity					
	thousands of bushels				
Public Country Elevator.....	380,838	373,357	364,661	356,263	343,953
Grain Storage Buildings.....	10,157	12,992	14,953	15,080	8,522
Private Country Elevator.....	232	240	369	337	349
Mill Elevator.....	13,637	13,671	13,513	13,451	13,525
Public Terminal Elevator.....	—	—	—	17,100	17,100
Semi-Public Terminal Elevator.....	138,524	137,524	137,524	118,774	116,624
Private Terminal Elevator.....	7,070	7,070	7,070	7,070	7,070
Eastern Elevator.....	97,767	94,227	94,102	94,102	92,182
Totals.....	648,225	639,081	632,192	622,177	599,325

Table C-18.—Licensed Elevators and Storage as at December 1, 1959.

Kind of Elevator	Ontario	Mani- toba	Saskat- chewan	Alberta	British Colum- bia	Quebec and Mari- times	Totals
NUMBER OF ELEVATORS							
Public Country.....	2	696	2,905	1,682	19	—	5,304
Private Country.....	—	2	1	5	—	—	8
Mill.....	3	8	6	9	8	—	34
Public Terminal.....	—	—	—	—	—	—	—
Semi-Public Terminal.....	24	2	2	3	9	—	40
Private Terminal.....	2	2	—	1	—	—	5
Eastern.....	19	—	—	—	—	12	31
Totals.....	50	710	2,914	1,700	36	12	5,422
STORAGE CAPACITY							
	thousands of bushels						
Public Country.....	65	49,669	200,474	128,434	2,196	—	380,838
†Grain Storage Buildings.....	1,400	—	5,027	3,730	—	—	10,157
Private Country.....	—	45	29	158	—	—	232
Mill.....	1,480	2,255	4,916	4,049	937	—	13,637
Public Terminal.....	—	—	—	—	—	—	—
Semi-Public Terminal.....	90,517	6,000	11,000	6,100	24,907	—	138,524
Private Terminal.....	2,435	3,145	—	1,490	—	—	7,070
Eastern.....	57,226	—	—	—	—	40,541	97,767
Totals.....	153,123	61,114	221,446	143,961	28,040	40,541	648,225

†Off-site storage.

APPENDIX D

Registration Branch

C. J. BROWNSCOMBE, Registrar

Section 127 of the Canada Grain Act requires operators or managers of Public terminal, Semi-Public terminal and Eastern Elevators to issue warehouse receipts for all grain taken into store. Regulations No. 1 and No. 2, made by the Board under the provisions of Section 15 (22) of the Canada Grain Act, require that all such warehouse receipts be registered with the Board as to grade and quantity at the time of issue, and that these warehouse receipts be surrendered to the Board for registration for cancellation when the grain which they represent has been shipped out.

Table D-1 of this appendix presents the total bushels, by grains, for which warehouse receipts were registered against grain received into store and registered for cancellation against grain shipped out, together with the averages of these handlings for the past ten crop years for comparison. Registration service was also provided to licensees for the registration and registration for cancellation of warehouse receipts that were required to be split, consolidated, grade adjusted or re-issued to facilitate documentation in connection with the handling of grain, and this work continued at normal levels throughout the year.

Records were maintained for each licensee in both the Eastern and Western Divisions, by grade, to show the total quantities registered, registered for cancellation or outstanding each day, and were kept in such manner as to provide both monthly and crop year totals of receipts, shipments, natural and artificial drying, and grade adjustments. A separate series of records was maintained for each licensee to provide a complete registration and cancellation record of all warehouse or transfer receipts issued. Certified statements of outstanding warehouse receipt grade totals and of the handlings for the non-mixing grades of wheat, and other relevant data, were issued as required for use in connection with the annual weighover of stocks of grain as carried out by Board officials at all terminal and eastern elevators.

Total bushels registered and registered for cancellation for all grains for elevators in the Western Division show decreases of 49.0 million and 50.4 million bushels respectively, as compared to those of the previous crop year, and decreases of 19.1 million and 9.1 million bushels respectively, compared to those of the ten-year average. Corresponding decreases in handlings, compared to those of the previous crop year, were also noted for the Eastern Division, but a slight increase in the quantities shipped was noted as compared to the ten-year average.

Fees for registration service were charged at the rate of 4 cents a thousand bushels for registration and for registration for cancellation in the Western Division, and one cent a thousand bushels for similar service in the Eastern Division. The general decrease in handlings for both Eastern and Western Divisions is reflected in the total fees collected for registration service of \$47,330.07 as compared to the ten-year average of \$48,542.58.

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Table D-1.—Warehouse Receipt Registrations for Primary and Transfer Receipts and Shipments at Semi-Public Terminal Elevators and Eastern Elevators, by Area and Grain, Crop Year 1958-59 and 10-year Average.

Area	Grain	Crop Year 1958-59		10-Year Average, 1948-49 to 1957-58	
		Registered	Registered for Cancellation	Registered	Registered for Cancellation
			—thousands	of bushels—	
WESTERN DIVISION— Winnipeg, including Lakehead and Churchill.....	Wheat.....	201,099	198,918	205,111	200,891
	Oats.....	32,637	35,209	68,470	70,293
	Barley.....	53,416	57,093	73,806	72,878
	Flax.....	9,394	10,507	9,517	9,358
	Rye.....	4,114	4,521	10,646	10,489
	Mixed Grain....	188	188	815	541
	Corn.....	—	—	29	39
	Other Grains....	141	114	137	147
INTERIOR ELEVATORS— Calgary, Edmonton, Lethbridge, Moose Jaw and Saskatoon.....	Wheat.....	3,624	1,218	5,449	4,396
	Oats.....	250	190	356	378
	Barley.....	1,726	1,816	1,577	1,572
	Flax.....	63	63	197	205
	Rye.....	—	—	41	41
	Mixed Grain....	—	44	—	26
	Corn.....	11	8	16	13
	Other Grains....	5,196	4,767	1,005	859
VANCOUVER AND PRINCE RUPERT AREA—	Wheat.....	105,495	107,717	95,060	93,994
	Oats.....	4,313	5,096	2,178	3,200
	Barley.....	38,248	37,187	14,549	14,494
	Flax.....	6,640	6,654	1,176	1,126
	Rye.....	260	336	211	200
	Mixed Grain....	7	5	39	48
	Corn.....	—	—	269	268
	Other Grains....	5,748	5,734	1,040	1,028
WESTERN DIVISION— All Points—	Wheat.....	310,218	307,853	305,620	299,281
	Oats.....	37,200	40,495	71,004	73,871
	Barley.....	93,390	96,096	89,932	88,944
	Flax.....	16,097	17,224	10,890	10,689
	Rye.....	4,374	4,857	10,898	10,730
	Mixed Grain....	195	237	854	615
	Corn.....	11	8	314	320
	Other Grains....	11,085	10,615	2,182	2,034
Totals—All Grains.....		472,570	477,385	491,694	486,484
EASTERN DIVISION—	Wheat.....	289,225	296,349	303,200	297,356
	Oats.....	41,758	43,519	43,402	43,178
	Barley.....	57,275	58,627	79,769	79,488
	Flax.....	24,871	24,585	17,771	17,788
	Rye.....	2,955	3,039	7,122	7,096
	Mixed Grain....	111	126	574	554
	Corn.....	32,834	32,233	16,888	16,989
	Screenings.....	2,060	2,110	1,341	1,347
	Peas.....	205	205	98	99
	Soybeans.....	9,195	9,154	3,061	3,016
	Buckwheat.....	198	202	346	348
	Other Grains....	1,182	1,193	349	347
Totals—All Grains.....		461,869	471,342	473,921	467,606

APPENDIX E

Inspection Branch

M. J. CONACHER, Chief Grain Inspector

Under Section 32 of the Canada Grain Act, the Grain Inspection Branch in the Western Division establishes grades on carlots of grain on samples drawn during unloading by officials of the inspection branch at the Lakehead, Pacific Coast, Churchill, Winnipeg, Calgary, Edmonton, Moose Jaw, Saskatoon, Lethbridge and Medicine Hat. Also, all grain shipped from terminal and mill elevators is officially sampled and inspected. At the primary inspection points of Winnipeg, Calgary and Edmonton, samples placed in railway cars by country elevator agents are removed and graded; while this service does not provide official grades of these shipments, the grades established on the unofficial samples are used by the shippers and terminal operators as a guide to their delivery and handling of the grain.

In the Eastern Division, sampling and grading service is provided on request at Chatham and Toronto for Eastern grown grain. At Montreal, Quebec, Sorel, Three Rivers, St. John and Halifax, grain loaded into vessels for export is sampled and the grades are checked.

Grades of all grain in store in all terminal and eastern elevators weighed over during the crop year are verified by officials of the Inspection Branch.

The probing of carlots of grain in the railway yards at Winnipeg, Calgary and Edmonton was discontinued, with occasional exceptions, on August 1, 1958. This was done because it had become increasingly difficult to obtain representative samples, as the railways introduced more and more new cars with higher minimum load requirements; many cars are loaded to full visible capacity, leaving little or no room for men to enter and obtain samples by probing.

This change has met with general approval of the trade; country elevator licensees generally are intent on their agents placing representative samples in the cars they load, so that the grain will be delivered to proper destination on the basis of the grade of the agents' samples.

Cereal crops in Western Canada in 1958 were remarkably good for a year of below normal precipitation. Manitoba, Saskatchewan and Southeastern Alberta suffered from drought through early summer. Development of rust was reduced by the dry weather; and when rains came later, the crops made a remarkable recovery. Yields in Alberta were better than in the other two Prairie Provinces; there were bumper crops through much of central Alberta. Harvest conditions were good over the Prairies, except for a strip across Northern Manitoba, North central Saskatchewan, to part of central Alberta; the harvest was hampered by storms through that area.

Manitoba No. 2 Northern was the predominating grade of Red Spring Wheat (33.5% of shipments). There was an increase in Manitoba No. 1 Northern shipped (1.9% compared to 0.3% in the 1957-58 crop year); second growth, green kernels reduced the grade of much otherwise sound, ripe wheat in the dry belt. There was less Manitoba No. 3 Northern (28.9%) and Manitoba No. 4 Northern (16.5%) than the previous crop year, and much less No. 5 and No. 6 wheat. The incidence of tough and damp grades was higher than in 1957. Selkirk variety matured better, and therefore produced better grades than previously, through the drier areas.

No. 2 Canada Western Amber Durum was the predominating grade of this class (24.6% compared to 18.2% in the previous crop year). This grade, and

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No. 3, Extra No. 4, and No. 4 Canada Western combined made up 92.4% of Amber Durum inspections. The new variety Ramsey was conspicuous in grades of No. 1, No. 2, and No. 3 Canada Western Amber Durum.

No. 1 Feed was the predominating grade of barley shipped during the crop year (36.6%), a slight increase over the previous year (33.1%); this was on account of light weight in the dry, southern areas and damage from weathering in central and northern districts. Only 39.4% of the barley shipped was graded No. 3 Canada Western or higher, including both six-row and two-row types, compared to 39.1% in the crop year 1957-58.

Only 11.8% of carlots of oats were graded No. 3 Canada Western and higher, on account of weathering and light weight. No. 1 Feed comprised 62.5% of cars of oats inspected.

The incidence of ergot in rye was low; this is typical of a dry growing season in the areas where most of our rye is produced. 89.2% of all carlots of rye were graded No. 2 or No. 3 Canada Western.

89.0% of carlots of flaxseed were graded No. 1 Canada Western, compared to 57.4% the previous year. The quantities of both rapeseed and mustard seed (5,194 and 671 carlots respectively) made new high records; grades of both of these were generally high. 173 carlots of safflower seed set a new record for this seed also.

13,627 samples submitted by country elevator operators and farmers "subject to inspectors' grade and dockage" were graded during the crop year 1958-59.

In Eastern Canada, wet weather in early summer of 1958 produced heavy yields of winter wheat and barley, as well as oats. While some of these early crops were damaged from weathering at harvest time, the quality was generally good. The predominating grade of wheat was No. 2 Canada Eastern White Winter Wheat, and 80% of carlots of barley were graded No. 2 or No. 3 Canada Eastern Six-Row.

Cool, wet weather during the summer affected the yield of late fall crops in Ontario, but better weather in the fall produced good quality in these crops generally. 69.6% of the corn that was inspected was straight grade or extra dry No. 1 or No. 2 Canada Eastern Yellow; 83.3% of the soybeans inspected were straight grade No. 1 or No. 2 Canada Yellow.

Pea beans, which mature earlier than corn and soybeans, suffered some damage from rains at harvest time; 42.7% of carlots inspected were tough or damp. A new variety of pea beans named Sanilac, that withstands blight and adverse weather better than the older varieties, gave gratifying results; yield and grade of Sanilac beans was conspicuously better.

Western Division

Table E-1.—Carlot Inspections by Points, Crop Year 1958-59, compared with 1957-58

	1958-59	1957-58	1958-59	1957-58
			percent of total	
Fort William.....	144,666	—	53.8	—
Winnipeg.....	11,231	168,613	4.2	56.7
Churchill.....	10,712	9,942	4.0	3.4
Moose Jaw.....	3,547	3,897	1.3	1.3
Saskatoon.....	8,337	8,071	3.1	2.7
Calgary.....	4,864	57,542	1.8	19.4
Edmonton.....	3,108	46,080	1.2	15.5
Medicine Hat.....	1,981	1,958	0.7	0.7
Lethbridge.....	281	385	0.1	0.1
Prince Rupert.....	3,863	—	1.4	—
Vancouver.....	76,244	649	28.4	0.2
Totals.....	268,834	297,137	100.0	100.0

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Table E-2.—Carlot Inspections, Crop Year 1958-59

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT			
1 Manitoba Northern.....	3,307	1.9	—
2 Manitoba Northern.....	58,876	33.5	—
3 Manitoba Northern.....	50,823	28.9	—
4 Manitoba Northern.....	29,089	16.5	—
No. 4 Special.....	113	0.1	—
No. 5.....	12,382	7.0	—
No. 5 Special.....	16	*	—
No. 6.....	1,424	0.8	—
No. 6 Special.....	4	*	—
Feed.....	66	*	—
Tough.....	14,373	8.2	—
Damp.....	933	0.5	—
Smutty.....	99	0.1	—
Rejected.....	4,141	2.4	—
Sample.....	120	0.1	—
Condemned.....	3	*	—
Broken Red Spring.....	12	*	—
Total Red Spring Wheat.....	175,781	100.0	95.2
3 Canada Western Garnet.....	3	75.0	—
Tough Canada Western Garnet.....	1	25.0	—
Total Garnet Wheat.....	4	100.0	*
1 Canada Western Amber Durum.....	29	0.3	—
2 Canada Western Amber Durum.....	2,055	24.6	—
3 Canada Western Amber Durum.....	1,968	23.6	—
Extra 4 Canada Western Amber Durum.....	1,812	21.7	—
4 Canada Western Amber Durum.....	1,882	22.5	—
5 Canada Western Amber Durum.....	283	3.4	—
6 Canada Western Amber Durum.....	12	0.1	—
Tough Canada Western Amber Durum.....	65	0.8	—
Damp Canada Western Amber Durum.....	6	0.1	—
Smutty Canada Western Amber Durum.....	1	*	—
Rejected Canada Western Amber Durum.....	231	2.8	—
Sample Canada Western Amber Durum.....	7	0.1	—
Total Amber Durum Wheat.....	8,351	100.0	4.5
1 Canada Western Soft White Spring.....	1	0.4	—
2 Canada Western Soft White Spring.....	195	71.7	—
3 Canada Western Soft White Spring.....	66	24.2	—
4 Canada Western Soft White Spring.....	2	0.7	—
Tough Canada Western Soft White Spring.....	—	—	—
Damp Canada Western Soft White Spring.....	1	0.4	—
Rejected Canada Western Soft White Spring.....	4	1.5	—
Sample Canada Western Soft White Spring.....	3	1.1	—
Total Soft White Spring Wheat.....	272	100.0	0.2
1 Canada Western Mixed Wheat.....	2	2.2	—
2 Canada Western Mixed Wheat.....	3	3.4	—
3 Canada Western Mixed Wheat.....	53	59.6	—
4 Canada Western Mixed Wheat.....	14	15.7	—
5 Canada Western Mixed Wheat.....	4	4.5	—
6 Canada Western Mixed Wheat.....	4	4.5	—
Rejected Canada Western Mixed Wheat.....	7	7.9	—
Tough Canada Western Mixed Wheat.....	2	2.2	—
Total Mixed Wheat.....	89	100.0	*

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Table E-2.—Carlot Inspections, Crop Year 1958-59—Continued

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT—Concluded			
1 Alberta Red Winter.....	59	23.8	—
2 Alberta Winter.....	161	64.9	—
3 Alberta Winter.....	17	6.9	—
4 Alberta Winter.....	1	0.4	—
Smutty Alberta Winter.....	2	0.8	—
Rejected Alberta Winter.....	8	3.2	—
Total Alberta Winter Wheat.....	248	100.0	0.1
Total All Wheats.....	184,745	—	100.0

Grade	Carlots	Percentage
OATS		
2 Canada Western.....	21	0.1
Extra 3 Canada Western.....	180	1.2
3 Canada Western.....	1,576	10.5
Extra 1 Feed.....	3,044	20.2
1 Feed.....	9,417	62.5
2 Feed.....	285	1.9
3 Feed.....	53	0.3
Mixed Feed Oats.....	121	0.8
Tough Oats.....	221	1.5
Damp Oats.....	2	*
Rejected Oats.....	59	0.4
Sample Oats.....	71	0.5
No. 2 Mixed Feed Oats.....	8	0.1
Total Oats.....	15,058	100.0

BARLEY		
1 Canada Western Six Row.....	148	0.3
2 Canada Western Six Row.....	4,865	9.9
3 Canada Western Six Row.....	7,899	16.0
4 Canada Western Six Row.....	2,147	4.4
1 Canada Western Two Row.....	63	0.1
2 Canada Western Two Row.....	1,460	3.0
3 Canada Western Two Row.....	4,986	10.1
1 Feed.....	18,065	36.6
2 Feed.....	4,458	9.0
3 Feed.....	437	0.9
Tough.....	3,678	7.5
Damp.....	466	0.9
Rejected.....	607	1.2
Sample.....	36	0.1
Condemned Barley.....	3	*
Total Barley.....	49,318	100.0

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Table E-2.—Carlot Inspections, Crop Year 1958-59—Continued

Grade	Carlots	Percentage
RYE		
1 Canada Western.....	11	0.5
2 Canada Western.....	1,297	54.9
3 Canada Western.....	809	34.3
4 Canada Western.....	114	4.8
Ergoty.....	51	2.2
Tough.....	66	2.8
Damp.....	2	0.1
Rejected.....	7	0.3
Ergot and Other Grains.....	3	0.1
Total Rye.....	2,360	100.0

FLAXSEED

1 Canada Western.....	9,096	89.0
2 Canada Western.....	589	5.7
3 Canada Western.....	84	0.8
4 Canada Western.....	7	0.1
Rejected.....	38	0.4
Sample.....	30	0.3
Tough.....	363	3.5
Damp.....	16	0.2
Total Flaxseed.....	10,223	100.0

MIXED GRAIN

1 Canada Western.....	15	10.9
2 Canada Western.....	8	5.8
3 Canada Western.....	66	47.8
4 Canada Western.....	2	1.5
Rejected.....	13	9.4
Sample.....	26	18.8
Tough.....	7	5.1
Damp.....	1	0.7
Total Mixed Grain.....	138	100.0

CORN

1 Canada Western Yellow.....	2	1.4
2 Canada Western Yellow.....	25	17.7
3 Canada Western Yellow.....	18	12.8
4 Canada Western Yellow.....	6	4.3
Tough.....	2	1.4
Sample.....	1	0.7
U.S.A. Origin.....	86	61.0
Others.....	1	0.7
Total Corn.....	141	100.0

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Table E-2.—Carlot Inspections, Crop Year 1958-59—Continued

Grade	Carlots	Percentage
MUSTARD SEED		
Extra 1 Canada Western Yellow.....	2	0.3
1 Canada Western Yellow.....	10	1.5
2 Canada Western Yellow.....	49	7.3
3 Canada Western Yellow.....	3	0.4
1 Canada Western Oriental.....	365	54.4
2 Canada Western Oriental.....	1	0.2
1 Canada Western Brown.....	186	27.7
2 Canada Western Brown.....	7	1.0
Sample Canada Western Yellow.....	1	0.2
Others.....	47	7.0
Total Mustard Seed.....	671	100.0

RAPESEED

Canada.....	4,268	82.2
2 Canada.....	16	0.3
3 Canada.....	1	*
Sample Canada.....	5	0.1
Tough.....	877	16.9
Damp.....	27	0.5
Total Rapeseed.....	5,194	100.0

SCREENINGS

1 Feed.....	92	17.2
2 Feed.....	11	2.0
Uncleaned.....	69	12.9
Refuse.....	292	54.5
Sample.....	72	13.4
Total Screenings.....	536	100.0
Sunflower Seed.....	5	—
Buckwheat.....	36	—
Peas.....	163	—
Sample Grain.....	53	—
Safflower Seed.....	173	—
U.S. Safflower Seed.....	16	—
Sample Feed Grain.....	3	—
Condemned Grain.....	1	—
Grand Total.....	263,834	—

*Less than 0.05%.

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Table E-3.—Carlots of Tough, Damp and Straight Grain Inspected Crop Year 1958-59

Grain	Tough	Damp	Tough and Damp	Straight	Total
Wheat.....	14,441	940	15,381	169,364	184,745
Oats.....	221	2	223	14,835	15,058
Barley.....	3,678	466	4,144	45,174	49,318
Rye.....	66	2	68	2,292	2,360
Flaxseed.....	363	16	379	9,844	10,223
Others.....	886	28	914	6,216	7,130
All Grains.....	19,655	1,454	21,109	247,725	268,834
PERCENTAGE OF TOTAL					
Wheat.....	7.8	0.5	8.3	91.7	100.0
Oats.....	1.5	*	1.5	98.5	100.0
Barley.....	7.5	0.9	8.4	91.6	100.0
Rye.....	2.8	0.1	2.9	97.1	100.0
Flaxseed.....	3.5	0.2	3.7	96.3	100.0
Others.....	12.4	0.4	12.8	87.2	100.0
All Grains.....	7.3	0.6	7.9	92.1	100.0

*Less than 0.05%.

Table E-4.—Number of Two-Pound Samples “Subject to Grade and Dockage” Inspected Crop Year 1958-59 Compared with Crop Year 1957-58

Point	1958-59	1957-58
Number of Samples		
Winnipeg.....	9,981	15,036
Calgary.....	1,258	1,754
Edmonton.....	1,275	1,633
Moose Jaw.....	126	386
Saskatoon.....	512	1,047
Lethbridge.....	465	550
Medicine Hat.....	10	21
Totals.....	13,627	20,427

Table E-5.—Carlots Re-inspected, Crop Year 1958-59

Point	In-spected	Re-in-spected	Un-changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered
Fort William.....	144,666	8,824	7,758	801	240	10	15
Winnipeg.....	11,231	539	387	113	34	—	5
Churchill.....	10,712	—	—	—	—	—	—
Moose Jaw.....	3,547	203	181	18	4	—	—
Saskatoon.....	8,337	229	180	49	—	—	—
Calgary.....	4,864	119	84	32	1	—	2
Edmonton.....	3,108	69	56	6	3	1	3
Medicine Hat.....	1,981	116	85	22	9	—	—
Lethbridge.....	281	—	—	—	—	—	—
Prince Rupert.....	3,863	455	443	10	2	—	—
Vancouver.....	76,244	3,896	3,319	548	14	1	14
Totals.....	268,834	14, 50	12,493	1,599	307	12	39

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Table E-5.—Carlots Re-inspected, Crop Year 1958-59—Concluded

Point	In-spected	Re-in-spected	Un-changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered
		Percentage of Re-inspections					
	%	%	%	%	%	%	%
Fort William.....	—	100.0	87.9	9.1	2.7	0.1	0.2
Winnipeg.....	—	100.0	71.8	21.0	6.3	—	0.9
Churchill.....	—	100.0	—	—	—	—	—
Moose Jaw.....	—	100.0	89.1	8.9	2.0	—	—
Saskatoon.....	—	100.0	78.6	21.4	—	—	—
Calgary.....	—	100.0	70.6	26.9	0.8	—	1.7
Edmonton.....	—	100.0	81.2	8.7	4.3	1.5	4.3
Medicine Hat.....	—	100.0	73.3	19.0	7.7	—	—
Lethbridge.....	—	100.0	—	—	—	—	—
Prince Rupert.....	—	100.0	97.4	2.2	0.4	—	—
Vancouver.....	—	100.0	85.2	14.0	0.4	*	0.4
Totals.....	—	100.0	86.4	11.1	2.1	0.1	0.3

*Less than 0.05%.

Table E-6.—Summary of Carlot Inspections Appealed, Crop Year 1958-59

Item	Winnipeg		Edmonton		Calgary		Total	
	Cars	Percent	Cars	Percent	Cars	Percent	Cars	Percent
Left as graded.....	460	91.3	291	86.3	511	87.2	1,262	88.4
Grades raised.....	35	6.9	44	13.1	68	11.6	147	10.3
Grades lowered.....	9	1.8	2	0.6	7	1.2	18	1.3
Totals.....	504	100.0	337	100.0	586	100.0	1,427	100.0
Total Cars Inspected.....							268,834	100.00
Total Appeals.....							1,427	0.53
Total Grades Changed.....							165	0.06

Table E-7.—Vessel Shipments Inspected, Crop Year 1958-59

Grain	Fort William and Port Arthur	Vancouver	Victoria	Prince Rupert	Churchill	Total
	bu.	bu.	bu.	bu.	bu.	bu.
Wheat.....	180,100,995	105,006,986	1,384,282	—	18,230,655	304,722,918
Oats.....	30,812,157	3,720,336	—	—	320,005	34,852,498
Barley.....	53,671,718	28,193,011	—	8,827,466	—	90,692,195
Rye.....	4,392,447	260,881	—	—	—	4,653,328
Flaxseed.....	9,307,681	6,036,267	680,764	—	—	16,024,712
Buckwheat.....	49,938	—	—	—	—	49,938
*Sample Grain.....	137,067	—	—	—	—	137,067
*Screenings.....	2,568,373	66,035	—	1,600	190,800	2,826,808
*Canada Rapeseed.....	—	4,102,578	395,718	—	—	4,498,296
*Mustard Seed.....	—	900,643	—	—	—	900,643
**Safflower Seed.....	—	354,276	—	—	—	354,276
**Safflower Seed (U.S.A. origin).....	—	48,918	—	—	—	48,918
Totals.....	281,040,376	148,689,931	2,460,764	8,829,066	18,741,460	459,761,597

*In bushels of 50 pounds.

**In bushels of 45 pounds.

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Table E-8.—Carlot Shipments ex Terminal Elevators Inspected, Crop Year 1958-59

Grain	Winnipeg	Fort William and Port Arthur	Calgary	Edmonton	Moose Jaw
Wheat.....	383	1,208	140	89	72
Oats.....	290	1,701	19	82	65
Oats Groats.....	—	4	—	—	—
Barley.....	340	2,555	967	30	9
Flax.....	19	707	5	29	8
Rye.....	—	50	—	—	—
Mixed Grain.....	24	—	1	—	2
Corn.....	11	—	—	—	—
Buckwheat.....	2	4	—	—	—
Peas.....	78	—	—	—	—
Screenings.....	430	3,583	201	152	130
Rapeseed.....	86	28	183	1,006	460
Sample Grain.....	—	74	—	—	—
Mustard Seed.....	—	—	—	—	—
Totals.....	1,663	9,914	1,516	1,388	746

Grain	Saskatoon	Lethbridge	Medicine Hat	Vancouver, Victoria and Prince Rupert	Churchill
Wheat.....	693	3	—	613	—
Oats.....	113	—	—	377	—
Barley.....	7	3	—	197	—
Flax.....	—	30	49	4	—
Rye.....	—	—	—	8	—
Mixed Grain.....	1	—	—	8	—
Corn.....	—	—	—	—	—
Buckwheat.....	—	—	—	—	—
Peas.....	—	—	—	—	—
Screenings.....	624	3	—	1,464	—
Rapeseed.....	745	—	—	—	—
Mustard Seed.....	—	22	—	—	—
Totals.....	2,183	61	49	2,671	—

Eastern Division

Table E-9.—Carlot Inspections Eastern Grain, Crop Year 1958-59, by Grains and Points

Grain	Montreal	Toronto	Chatham	Total
Wheat.....	2	542	2,215	2,759
Oats.....	3	—	20	23
Barley.....	—	4	182	186
Rye.....	—	2	55	57
Buckwheat.....	1	1	8	10
Corn.....	—	—	920	920
Beans.....	—	—	159	159
Soybeans.....	—	116	1,572	1,688
Totals.....	6	665	5,131	5,802

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Table E-10.—Carlot Inspections Eastern Grain, Crop Year 1958-59, by Grains, Grades and Points

Grade	Montreal	Toronto	Chatham	Total
WHEAT				
1 Canada Eastern White Winter.....	1	151	406	558
2 Canada Eastern White Winter.....	1	287	984	1,272
3 Canada Eastern White Winter.....	—	48	119	167
4 Canada Eastern White Winter.....	—	2	20	22
5 Canada Eastern White Winter.....	—	—	18	18
1 Canada Eastern Mixed Winter.....	—	8	44	52
2 Canada Eastern Mixed Winter.....	—	4	46	50
3 Canada Eastern Mixed Winter.....	—	—	1	1
6 Canada Eastern Winter.....	—	—	19	19
Tough.....	—	17	441	458
Smutty.....	—	14	7	21
Weevilly.....	—	10	76	86
Sample.....	—	1	31	32
Condemned.....	—	—	3	3
Totals, Wheat.....	2	542	2,215	2,759
OATS				
2 Canada Eastern White.....	—	—	1	1
3 Canada Eastern.....	1	—	5	6
4 Canada Eastern.....	1	—	10	11
Tough.....	1	—	3	4
Sample.....	—	—	1	1
Totals, Oats.....	3	—	20	23
BARLEY				
2 Canada Eastern Six Row.....	—	—	6	6
3 Canada Eastern Six Row.....	—	—	123	123
4 Canada Eastern.....	—	1	51	52
5 Canada Eastern.....	—	2	1	3
Tough.....	—	—	1	1
Condemned.....	—	1	—	1
Totals, Barley.....	—	4	182	186
RYE				
2 Canada Eastern.....	—	1	36	37
3 Canada Eastern.....	—	1	7	8
4 Canada Eastern.....	—	—	4	4
Tough.....	—	—	7	7
Sample.....	—	—	1	1
Totals, Rye.....	—	2	55	57
BUCKWHEAT				
Tough.....	—	1	4	5
Damp.....	1	—	4	5
Totals, Buckwheat.....	1	1	8	10

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**Table E-10.—Carlot Inspections Eastern Grain, Crop Year 1958-59, by Grains,
Grades and Points—Concluded**

Grade	Montreal	Toronto	Chatham	Total
CORN				
Extra Dry 1 Canada Eastern Yellow.....	—	—	157	157
1 Canada Eastern Yellow.....	—	—	206	206
Extra Dry 2 Canada Eastern Yellow.....	—	—	78	78
2 Canada Eastern Yellow.....	—	—	201	201
Extra Dry 3 Canada Eastern Yellow.....	—	—	14	14
3 Canada Eastern Yellow.....	—	—	20	20
Extra Dry 4 Canada Eastern Yellow.....	—	—	4	4
4 Canada Eastern Yellow.....	—	—	6	6
5 Canada Eastern Yellow.....	—	—	1	1
Tough.....	—	—	111	111
Damp.....	—	—	17	17
Moist.....	—	—	97	97
Wet.....	—	—	6	6
Sample.....	—	—	2	2
Totals, Corn.....	—	—	920	920
BEANS				
1 Canada Eastern Pea.....	—	—	26	26
2 Canada Eastern Pea.....	—	—	48	48
3 Canada Eastern Pea.....	—	—	8	8
3 Canada Eastern Yellow Eye.....	—	—	2	2
Tough.....	—	—	67	67
Damp.....	—	—	8	8
Totals, Beans.....	—	—	159	159
SOYBEANS				
1 Canada Yellow.....	—	25	1,048	1,073
2 Canada Yellow.....	—	80	273	353
3 Canada Yellow.....	—	2	23	25
4 Canada Yellow.....	—	—	3	3
Tough.....	—	9	192	201
Damp.....	—	—	30	30
Moist.....	—	—	1	1
Sample.....	—	—	1	1
Condemned.....	—	—	1	1
Totals, Soybeans.....	—	116	1,572	1,688
Totals, All Grains.....	6	665	5,131	5,802

Table E-11.—Cargo Inspections, Eastern Grain, Crop Year 1958-59

Grain	St. John and Halifax	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.	bu.
Wheat.....	—	233,187	317,737	2,461,200	3,012,124
Oats.....	—	183,105	—	—	183,105
Corn.....	—	—	—	404,106	404,106
Soybeans.....	—	109,582	135,836	2,770,214	3,015,632
Totals.....	—	525,874	453,573	5,635,520	6,614,967

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Table E-11A.—Cargo Inspections, Western Grain, Crop Year 1958-59

Grain	St. John and Halifax	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.	bu.
Buckwheat.....	—	47,122	—	—	47,122
Flaxseed.....	1,261,192	638,497	—	—	1,899,689
Rapeseed.....	701,024	471,101	—	—	1,172,125
Peas.....	91,000	74,430	—	—	165,430
Mustard Seed.....	—	4,982	—	—	4,982
Totals.....	2,053,216	1,236,132	—	—	3,289,348

Table E-11B.—Cargo Inspections, U.S. Grain, Crop Year 1958-59

Grain	St. John and Halifax	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.	bu.
Flaxseed.....	—	245,001	—	—	245,001

Table E-12.—Inspections, Eastern Grain in Bins, Trucks or Warehouses, Crop Year 1958-59

Grain	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.
Wheat.....	12,133	—	38,830	50,963
Oats.....	385,456	—	—	385,456
Barley.....	—	—	212	212
Corn.....	—	—	3,696	3,696
Beans.....	—	—	173,459	173,459
Soybeans.....	—	—	9,910	9,910
Totals.....	397,589	—	226,107	623,696

Table E-12A.—Inspections, Western Grain in Bins, Trucks or Warehouses, Crop Year 1958-59

Grain	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.
Mixed Grain.....	5,041	—	—	5,041
Peas.....	5,800	—	—	5,800
Totals.....	10,841	—	—	10,841

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**Table E-13.—Inward and Export Cargoes Sampled and Grade Checked,
Crop Year 1958-59**

	Montreal	Sorel	Three Rivers	Quebec	Halifax and St. John	Total
	bu.	bu.	bu.	bu.	bu.	bu.
EASTERN GRAIN						
Inward.....	5,128,254	—	81,778	—	—	5,210,032
Export.....	5,190,711	37,362	441,384	—	382,778	6,052,235
WESTERN GRAIN						
Inward.....	52,142,364	525,324	316,669	—	—	52,984,357
Export.....	57,708,771	20,650,069	17,769,363	11,710,206	29,581,538	137,419,947
U.S. GRAIN						
Inward.....	8,575,491	—	—	—	—	8,575,491
Export.....	8,307,286	98,000	—	—	—	8,405,286
SOUTH AFRICAN GRAIN						
Inward.....	970,715	—	—	—	—	970,715
Export.....	—	—	—	—	—	—
Totals.....	138,023,592	21,310,755	18,609,194	11,710,206	29,964,316	219,618,063

Table E-14.—Grain Sampled but not Inspected, Crop Year 1958-59

	Montreal	Toronto and Chatham	Sorel, Three Rivers and Quebec	Halifax and St. John	Total
EASTERN GRAIN					
Carlots.....	4	—	—	—	4
Inward Cargoes (bu.).....	—	—	—	—	—
Outward Cargoes (bu.).....	62,707	—	—	—	62,707
Bin Lots (bu.).....	352,091	—	145,426	—	497,517
WESTERN GRAIN					
Carlots.....	169	1	4	—	174
Inward Cargoes (bu.).....	370,335	—	208,635	—	578,970
Outward Cargoes (bu.).....	5,442,892	—	4,310,760	1,661,416	11,415,068
Bin Lots (bu.).....	656,941	—	314,560	4,674	976,175
U.S.A. GRAIN					
Carlots.....	101	—	—	—	101
Inward Cargoes (bu.).....	1,591,664	—	—	—	1,591,664
Outward Cargoes (bu.).....	252,279	—	—	—	252,279
Bin Lots (bu.).....	313,249	—	—	—	313,249
SOUTH AFRICAN GRAIN					
Carlots.....	34	—	—	—	34
Inward Cargoes (bu.).....	202,511	—	—	—	202,511
Bin Lots (bu.).....	35,556	—	—	—	35,556
Totals—Cars.....	308	1	4	—	313
—Bushels.....	9,280,225	—	4,979,381	1,666,090	15,925,696

APPENDIX F

Grain Weighing Branch

J. J. MANSON, Chief Grain Weighman

Under the provisions of Sections 33 and 124 of the Canada Grain Act, all grain received into and shipped from licensed terminal elevators is weighed under supervision of the Board's weighing staffs. Weighing services are also provided at licensed mill elevators.

During the Crop Year 1958-59 weighing services were provided at forty-five semi-public and private terminal elevators and when required, at twenty-nine mill elevators in the Western Division.

All scales and the equipment for transferring grain to scales on receipt and from scales for shipment in all licensed terminal elevators and serviced mill elevators were regularly inspected during the crop year under provision of Section 92 of the Act.

In accordance with the special arrangement with the Standards Branch of the Department of Trade and Commerce, all scales in licensed terminal and eastern elevators were inspected, verified and stamped by the Board's Scale Inspector acting as an inspector under the Weights and Measures Act. A semi-annual inspection was also made of all scales at terminal elevators to ascertain if scales were maintaining their accuracy. Special inspections were made when any doubt arose as to the accuracy of any scale.

Attention has been given to alterations in elevators and dust control installations to ensure that such changes and installations do not affect the accuracy of the weighing of grain received at or shipped from these elevators.

During the crop year under review, 273,651 carlots of grain were weighed on receipt at terminal and mill elevators in the Western Division and of these carlots 51,322 or 18.7% were reported leaking and 5,755 or 2.1% were without seals or had defective seals. There was also a total of 21,125 cars weighed out of terminals.

The Branch maintained a close checking of reported outturns at eastern elevators of cargoes loaded at Lakehead terminals, and investigations were made in cases of reported excessive shortages with a view to assessing the liability where such could be established.

Under provisions of Sections 139 and 140 of the Canada Grain Act, weighovers were conducted at thirty terminal elevators and twenty-six eastern elevators. Results of weighovers were submitted to the Board for comparison with outstanding warehouse receipts and preparation of official statements. The Board found it necessary to defer several terminal and eastern elevator audits due to heavy grain stocks in store.

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Table F-1.—Gross Quantities of all Grains Weighed at Terminal Elevators in the Western Division during 1958-59 Crop Year

Point	Wheat	Oats	Barley	Rye	Flaxseed	Canadian Corn	Canadian Buckwheat	Miscellaneous
	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lbs.
RECEIPTS								
Fort William-Port Arthur.....	186,042,190	33,789,328	61,564,180	4,209,656	10,775,056	—	59,785	45,527,820
Vancouver-New Westminster.....	107,104,892	4,363,929	29,576,912	266,495	6,655,844	—	—	283,760,819
Victoria.....	1,293,244	345	7,560	271	779,632	—	—	19,659,820
Prince Rupert.....	—	—	9,201,152	—	—	—	—	—
Churchill.....	19,842,585	—	—	—	278	—	—	—
Calgary.....	1,997,604	9,094	7,820,324	—	39,490	—	—	20,887,840
Edmonton.....	5,003,429	383,768	247,008	—	8,182	60,475	—	102,457,700
Lethbridge.....	24,484	—	24,271	—	302,118	—	—	3,520,880
Moose Jaw.....	60,393	—	—	—	—	—	—	51,647,800
Saskatoon.....	12,616,605	277,491	—	—	—	—	—	80,854,910
North Transcona.....	455,630	53,866	41,756	—	3,466	—	—	278,355
Total Receipts.....	334,441,056	38,877,821	108,483,163	4,476,422	18,564,066	60,475	59,785	608,595,944
SHIPMENTS								
Fort William-Port Arthur.....	180,509,194	35,384,321	64,141,513	4,520,721	10,675,684	—	58,516	379,068,050
Vancouver-New Westminster.....	106,308,721	5,061,503	28,351,350	335,710	6,041,691	—	—	503,125,390
Victoria.....	1,408,632	34,000	7,833	—	680,765	—	—	27,877,920
Prince Rupert.....	—	—	8,827,467	—	—	—	—	8,135,800
Churchill.....	18,409,323	320,006	—	—	—	—	—	9,540,000
Calgary.....	1,326,424	19,985	8,287,239	—	39,490	—	—	20,913,100
Edmonton.....	701,001	407,134	234,019	—	8,182	45,482	—	103,514,410
Lethbridge.....	24,159	670	24,271	—	285,404	—	—	2,458,810
Moose Jaw.....	60,393	—	—	—	—	—	—	51,325,390
Saskatoon.....	4,842,079	75,799	—	—	—	—	—	89,080,020
North Transcona.....	59,045	41,637	35,491	—	3,466	—	—	1,062,200
Total Shipments.....	313,648,971	41,345,055	109,909,183	4,856,431	17,734,632	45,482	58,516	1,196,101,090

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Table F-2.—Number of Cars Leaking and Cars with Missing Seals at the Lakehead, at Other Points and at Winnipeg Yards, by Railways, for the Crop Year 1958-59

Destination	Cars Leaking		Missing Seals	
	C.N.R.	C.P.R.	C.N.R.	C.P.R.
Lakehead Elevators and Yards.....	18,943	15,953	1,851	1,811
Other Points.....	7,469	8,957	1,203	890
Totals.....	26,412	24,910	3,054	2,701
Totals—Both Railways.....	51,322		5,755	
Winnipeg Yards.....	704	542	432	455

Table F-3.—Number of Cars Weighed at all Points and Percentage of such Cars found Leaking or with Defective Seals, Crop Years 1957-58 and 1958-59

	Number		Percentage of Total	
	1958-59	1957-58	1958-59	1957-58
Cars Weighed In.....	273,651	299,976	100.0	100.0
Inward Cars Leaking.....	51,322	52,785	18.7	17.6
Inward Cars with Missing or Defective Seals.....	5,755	5,787	2.1	1.9
Cars Weighed Out.....	21,125	21,806	—	—

Table F-4.—Average Reported Outturn Shortages on Vessel Shipments of Grain from Fort William-Port Arthur to Canadian and United States Ports during the 1958-59 Crop Year

Grain	Bushels Shipped	Shortage in Pounds per 1,000 Bushels	
		1958-59	1957-58
CANADIAN PORTS			
Wheat.....	154,577,288	30.49	31.43
Durum Wheat.....	15,112,307	35.18	28.28
Oats.....	31,036,252	23.07	22.97
Barley.....	40,186,118	27.44	24.11
Rye.....	1,436,667	55.45	13.55
Flaxseed.....	7,934,443	33.65	26.59
Buckwheat.....	49,939	24.00	30.26
Mixed Grain (in lbs.).....	—	—	1.47 lbs. per 1,000 lbs.
Sample Grain (in lbs.).....	7,817,070	.49 lbs. per 1,000 lbs.	.55 lbs. per 1,000 lbs.
Screenings (in tons).....	38,516	1.29 lbs. per ton	1.39 lbs. per ton
UNITED STATES PORTS			
Wheat.....	3,692,312	77.02	82.47
Durum Wheat.....	—	—	55.91
Oats.....	195,458	23.17	50.11
Barley.....	9,086,693	49.63	39.83
Rye.....	2,955,781	77.46	48.21
Flaxseed.....	—	—	—
Buckwheat.....	—	—	—
Screenings (in tons).....	25,893	—	—
TOTAL CANADIAN AND UNITED STATES PORTS			
Wheat.....	158,269,600	31.58	33.55
Durum Wheat.....	15,112,307	35.18	28.35
Oats.....	31,231,710	23.17	30.92
Barley.....	49,272,811	31.53	28.63
Rye.....	4,392,448	70.28	37.96
Flaxseed.....	7,934,443	33.65	26.59
Buckwheat.....	49,939	24.00	30.26
Mixed Grain (in lbs.).....	—	—	1.47 lbs. per 1,000 lbs.
Sample Grain (in lbs.).....	7,817,070	.49 lbs. per 1,000 lbs.	.55 lbs. per 1,000 lbs.
Screenings (in tons).....	64,409	.76 lbs. per ton	.77 lbs. per ton

APPENDIX G

The Grain Research Laboratory

J. ANSEL ANDERSON, Chief Chemist

Section 22 of the Canada Grain Act requires that "The Board shall maintain an efficient and adequately equipped laboratory for research work in relation to grain."

The work of the Grain Research Laboratory for 1959 is summarized in the following report. It deals with the quality of Canadian grain marketed during the 1958-59 crop year, the estimated quality of 1959 grain crops, and with research and other activities.

Quality of Grain Marketed in 1958-59

Studies of the qualities of spring wheat, durum wheat, barley, oil seeds, and other grains, at various stages of marketing, were continued throughout the 1958-59 crop year, and the data obtained from these studies will be reported as tables and maps in the Laboratory's 1959 annual report. Although the 1958 spring wheat crop was one of the smallest harvested in the last 10 years, it was low in moisture, high in grade, and high in protein. As there was a large percentage of high-protein wheat in the carryover from the previous crop year, the effect of another crop of higher than average protein content showed to advantage in wheat exported early in the new crop year.

Spring wheat marketed in 1958-59 was high in bushel weight and flour yield, and average protein levels of all grades were appreciably higher than in 1957-58. Baking strength was also higher in 1958-59, and supporting value was very good. Baking absorption was high, gassing power was satisfactory, and doughs were lively and extensible. Durum wheat was also high in bushel weight and protein, and excellent in macaroni-making quality. Throughout the crop year, cargo shipments, grade for grade, were quite uniform in bushel weight, rheological properties, and macaroni quality. Malting barley was high in grade with malting quality about the same as in 1957-58. The flax and rapeseed crops were much the same in average qualities as in the previous crop year.

Estimated Quality of 1959 Crops

A wet September followed by heavy falls of snow across the prairies in October and November prevented completion of the 1959 harvest, and a considerable volume of swathed and uncut grain will remain in the field all winter. It was estimated on December 4 that 13% of the wheat crop, 12% of the barley crop, and 19% of the flax crop remained unthreshed. Estimates of production for 1959 Western crops are: wheat, 399 million bushels (including 15 million of durum); barley, 219 million bushels; flax, 21 million bushels; and rapeseed, 180 million pounds.

A considerable volume of tough and damp grain has been harvested, and drying on farms is extensive. Farmers and elevator agents are making good use of the free service offered by the Laboratory for testing the quality of dried grain. The Laboratory is also collaborating with the Inspection Branch in testing the quality of carlot shipments from areas in which country drying is in progress.

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The Hard Red Spring wheat crop is high in protein (average 14.2%), baking strength and supporting value. Despite a reduction in bushel weight, the Northern grades mill very well and give good yields of flour of satisfactory colour and ash. Baking absorption and gassing power are both at satisfactory levels, and doughs handle exceedingly well. About 85% of the crop is expected to enter the Northern grades, but there will be very little No. 1 Northern. As Western Canada has now harvested its third successive high-protein crop, there will be ample supplies of high-protein wheat for sale throughout the crop year.

The Amber Durum wheat crop is high in protein but down in bushel weight. The wheat is vitreous and mills very well; yellow pigment is high, dough properties are very good, and macaroni quality is excellent. There is very little 1 C.W., and it is expected that there will be about 25% of 2 C.W., about 50% of 3 C.W., and about 7% each of Extra No. 4 and 4 C.W. As increasing amounts of new durum wheat enter export channels, there will be a rise in protein and in percentage of vitreous kernels; macaroni colour may improve and dough properties can be expected to be somewhat better.

Malting quality of the barley crop is about the same as that of last year's crop. Yields of plump barley are similar for the two crops for 2 and 3 C.W. Six-row and 2 C.W. Two-row, but this year's 3 C.W. Two-row reflects drought conditions. Malt extract, wort nitrogen, and enzymatic activity for all grades except 3 C.W. Two-row are similar in both years. Two-row grades are lower in enzymatic activity than the Six-row grades. During the first two months of the crop year, 43% of the carlots of barley unloaded at terminal elevators were Six-row grades, 9% were Two-row grades, and 40% were Feed grades.

The flax and rapeseed crops are slightly better in average qualities than last year's crops. Average results for the flax crop show that oil content is 41.5%, iodine value is 188 units, and protein content is 44.5%. Average results for the rapeseed crop are 43.2% oil and 42.8% protein.

Bulletins and Maps

Preliminary information on the quality of different grades of 1959 Western grain crops was presented at the October meeting of the Committee on Western Grain Standards, and later in the Fall was published as maps and crop bulletins, i.e., two protein maps, (preliminary and final), two bulletins on wheat, one on barley, and one on flax and rapeseed. The usual wide distribution of these publications by mail and over the counter was made by the Laboratory, and large quantities were also sent out by the Canadian Wheat Board. A further distribution of the crop bulletin "Canadian Wheat 1959" was made by the Grain Division, Department of Trade and Commerce, Ottawa, through the offices of Canadian Government Trade Commissioners. Press notices preceded release of all these publications.

Publication of the two quarterly bulletins (one on spring wheat cargoes and one on durum wheat cargoes) was continued throughout 1959. These bulletins were distributed by Canadian Government Trade Commissioners who received supplies by air mail, and by the Laboratory. A large supply of each of the quarterly bulletins for the third quarter of 1958-59 was sent to Switzerland for distribution by Canadian representatives at the Lausanne Fair. The demand for these quarterly bulletins is still increasing, and every effort is made to get them into the hands of readers as soon as possible after the end of each quarter.

Service to Grain Inspection Branch

During the year the Laboratory continued to work closely with the Grain Inspection Branch by providing such services as were required to aid in grading and associated problems. Among the many problems that always arise in years of wet harvests, the most important this year has been grain drying on farms, and determining the quality of lots of dried grain delivered to country elevators and of carlots shipped to terminal elevators. A similar service is also used to control drying in terminal elevators. This control has necessitated the closest co-operation with the Chief Inspector who must be informed of the results before grades are assigned. A rapid stain test for spotting carlots that contain dried grain has proved invaluable for screening in primary inspection offices. Radio talks and addresses given at various meetings by the Chief Chemist, together with press interviews, brought information to farmers to assist them in their drying operations.

As in previous years, the Laboratory conducted comprehensive quality tests on the tentative Standard and Export Standard samples prepared by the Chief Inspector, and also provided him with information on the quality of samples that were used to make the standard samples. Supervision of moisture testing and of equipment in inspection offices has been continued as one of the Laboratory's responsibilities. This equipment now includes electrical moisture meters as well as Brown-Duvel apparatus.

Variety Testing

As in the past, the Laboratory continued to take a leading part in quality studies of varieties of spring and durum wheat and malting barley that are sponsored by the Associate Committee on Grain Research. As a result of the large collaborative study on three bread wheat varieties referred to in last year's report, two of the varieties, Pembina and Canthatch, have been licensed by the Canada Department of Agriculture. Both varieties are equal to Marquis in milling and baking qualities. Pembina, which originated from the cross Thatcher x (McMurachy x Exchange x Redman), is more resistant to stem and leaf rust than Selkirk. It is expected that Pembina will eventually replace Selkirk in the Prairie rust area. Canthatch, which originated from the cross Thatcher⁶ x Kenya Farmer, is more resistant to stem rust than Thatcher, otherwise the two varieties are essentially the same agronomically. Canthatch, like Thatcher, is susceptible to leaf rust, and consequently is not suitable for the Prairie rust area.

During the year, the Laboratory has continued to supply the wheat breeder with data on the quality of varieties grown in the Uniform Quality Nursery which is maintained as a source of parent stock in the Canadian breeding program. And for the first time, quality tests have been made on a series of winter wheat varieties grown in Western Canada. This is a parallel series to the spring wheat varieties that are studied in annual co-operative tests. Further work has been done in laboratory dehulling technique for detecting loose-hulled barley varieties, and recent results show that the moisture content of the kernels is an important factor in the efficiency of the test. Present information indicates that varietal differences are best detected at moisture levels of 11% and lower, and that the moisture must be known in order to make valid comparisons between varieties. Plant breeders continue to make good use of small-scale prediction tests developed by the Laboratory for segregating promising barley and durum wheat hybrids in early generation stocks, and further progress has been made in developing similar tests for spring wheat varieties.

Services to Other Organizations

Laboratory services and technical advice to the Canadian Wheat Board, to Commercial Counsellors and Trade Commissioners, and to other Government agencies continued on about the same scale as last year. Much of this work relates to the promotion of sales of Canadian grain. Need for factual information on the comparative qualities of Canadian wheat and competing wheats from other countries has resulted in a systematic study which has been conducted by the Laboratory for the past several years. The study is made in co-operation with the Canadian Wheat Board and Canadian Government Trade Commissioners, and each sample represents a parcel of wheat shipped to an importing country. Certain quality tests are made on individual cargoes and more comprehensive tests are made on composite samples of corresponding type. Close liaison has been maintained with the Brewing and Malting Barley Research Institute, Winnipeg, with the Northwest Crop Improvement Association, Minneapolis, and with the Cereal Quality Section, Canada Department of Agriculture. Active participation in the work of the American Association of Cereal Chemists and of the International Association for Cereal Chemistry has continued.

Research

In applied wheat research further improvements have been made in procedure and equipment for test milling. The influence of bushel weight and thousand-kernel weight on the milling and baking quality of average grades has been investigated and the study of the effect of heat conditioning on Canadian wheats has been continued. The quality of semolina from various streams occurring in durum milling, and the effect of bushel weight and kernel size on milling quality of durumms are under investigation. A new moulding device for test baking has been developed and put into routine use together with a new "profile" system for the evaluation of the baking quality of wheat varieties. An extensive study of the use of the extensograph for evaluating wheat varieties has been completed and a study made of the reason for anomalous high absorption characteristics. The study of foreign wheats is continuing and special studies of Indian wheats and North African durumms have been made. The research project on stored flour is continuing; wheat in store in Western terminals and wheat from the 1959 crop being dried is continually being checked.

Representative of the more basic research on wheat, nine scientific papers have either appeared in print or have been submitted for publication in scientific journals during the year. Other works are in preparation. The projects that have received attention include the following.

The weight per measured bushel, a widely used practical index of the physical quality of grain, has been analyzed in terms of its component factors such as density of packing, kernel density, moisture content, etc. If moisture is absorbed and then desorbed by grain it has been shown that definite irreversible changes in the specific volume are produced.

Kinetic studies of the bromate reaction have yielded further information on the mechanism of this important reaction. It is of some interest to note that oxygen of the air appears to react with the same group as do some of the common chemical reagents. Studies on the disappearance of bromate in bread show that no bromate remains in the baked bread.

The physical properties are generally considered to reflect the chemistry of the dough. Further work on correlating these two aspects has been carried on during the year. Remixing has an important effect on dough properties. The use of the structural relaxation technique developed in this Laboratory together with specific chemical reagents has yielded new information on this topic.

BOARD OF GRAIN COMMISSIONERS

With the development of a simple relationship between dough mobility and water absorption in the Laboratory, new possibilities have been opened up for research with the farinograph. A new and much needed method based on this relationship has been evolved for the intercomparison of different farinograph instruments used in the same or different laboratories.

These more basic studies contribute to the general store of knowledge which is then used as a basis for the solution of specific practical problems.

In barley research, the second complete malting unit is in operation and additional units for applied research are being constructed. Malts have been prepared of Betzes, a new Two-row variety, for brewing studies in the Brewing and Malting Barley Research Institute. Malts from varieties of high, medium and low wort nitrogen contents were also prepared for brewing studies. Analytical data on the nitrogen complexes of these malts were continued. Tests were made on foreign and Canadian Two-row barleys in order to assess Canadian barley in relation to barleys entering the European market. Studies on cytolytic enzymes were continued and refined methods for separation of the enzyme systems were introduced. In varietal studies, cytolytic activity of the green malt was shown to be more closely related than barley gum composition to variety quality.

Staff and Facilities

The third award of the National Research Council Postdoctorate Fellowship, tenable in the Grain Research Laboratory, was made to Dr. M. K. Narayanan, of the Central Food Technological Research Institute, Mysore, India. He arrived in November, and Dr. Bloksma, the second Fellow, returned to Holland in July. Dr. Narayanan's main work has been in vitamins and antioxidants, and he will continue studies on the latter subject under Dr. Hlynka. Mr. R. R. Matsuo is on leave at the University of Alberta where he is studying for a Ph.D. degree; he was awarded a Fellowship presented by the Ogilvie Milling Company. Mr. M. H. Birnboim resigned his position as physicist at the end of the year. The positions for two summer students were again filled by Mr. E. J. Zebrowski and Mr. M. A. J. Morello.

Dr. R. Tkachuk and Dr. Cho Ching Tsen have joined the staff of the Basic Wheat Research Section, and Mr. G. C. Martin came to the Applied Wheat Research Section to replace Mr. E. Aston who resigned to enter the teaching profession.

Except for part of the malting laboratory on the main floor, which should be finished next year, the expansion of the Laboratory referred to last year has been completed. All routine studies and services are now consolidated on the main floor of the Grain Exchange Building, with applied and basic research on the eighth floor.

Overseas Visits and Visitors

Dr. Anderson, accompanied by Mr. Conacher, the Chief Grain Inspector, spent 20 days in the U.S.S.R. where they obtained information on grain production, handling and storage, grading, inspection, milling and baking, on related research and development, and on general administration.

Dr. Meredith attended the Congress of the European Brewing Convention in Rome, Italy, after which he visited Germany, Great Britain and Ireland for discussions on malting and brewing problems with representatives of various companies.

The Laboratory was visited by a mission of engineers from the U.S.S.R., by missions from Great Britain and Norway, and by delegates to the international Botanical Congress on their pre-conference tour of Western Canada. There were also visitors from the United States and from various overseas countries.

APPENDIX H

Canadian Government Elevators

A. E. JACOBSON, General Manager

In accordance with the provisions of Section 166 of the Canada Grain Act and Order-in-Council P.C. 1372 of August 19, 1925, the Board manages and operates five interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge, and one terminal elevator at Prince Rupert, and leases one terminal elevator at Port Arthur.

In the 1958-59 crop year, interior and Prince Rupert elevators were operated under a Semi-Public Terminal Elevator license. Port Arthur continued under lease to McCabe Grain Company Limited.

Handlings

Receipts in 1958-59 were 8.1% higher than in 1957-58. (18.9 million bushels, 17.4 million bushels.) Shipments were lower by 7.8% (16.7 million bushels, 18.1 million bushels) which is reflected in a higher in-store figure at the end of the crop year. Wheat and barley receipts totalled 13.9 million bushels, 73% of total receipts. Receipts of rapeseed were 4.6 million bushels, an increase of .9 million bushels over last year. This seed was handled at the Moose Jaw, Saskatoon, Calgary and Edmonton elevators. Receipts at Prince Rupert were composed entirely of barley. Receipts and shipments by elevators were:

Elevator	Capacity	Stocks August 1, 1958	Net Receipts	Net Shipments	Stocks July 31, 1959
	million bu.	bu.	bu.	bu.	bu.
Moose Jaw.....	5.50	5,395,723	958,511	958,511	5,395,723
Saskatoon.....	5.50	3,171,128	3,556,372	2,348,459	4,379,042
Calgary.....	2.50	995,060	2,350,330	2,341,836	1,005,479
Edmonton.....	2.35	543,940	2,828,619	2,121,815	1,248,953
Lethbridge.....	1.25	908,585	152,094	110,308	930,371
Prince Rupert.....	1.25	134,890	9,045,909	8,827,466	341,229
Totals	18.35	11,149,326	18,891,835	16,708,395	13,320,797

Charges

Storage charges at all elevators are unchanged: Interior elevators at 1/45c, Prince Rupert at 1/30c per bushel per day. Storage and elevation charges at Prince Rupert are the same as those in effect at the Lakehead and other Pacific Coast ports. Elevation charges at the interior elevators on wheat, oats, barley and corn are 1 1/4c per bushel, 1c per bushel lower than charges at the Lakehead and Pacific Coast ports; charges on rye and flax at 1 1/4c per bushel and 2 3/8c per bushel respectively, are both 1 1/2c per bushel lower than at the Lakehead and Pacific Coast ports.

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Maintenance

The Repair and Reconstruction Unit formed in 1958 is near completion of concrete repair at Saskatoon. A portion of key personnel were transferred temporarily to the Moose Jaw elevator to commence similar work required there. Buildings, machinery and trackage at all points were maintained in good condition. Obsolete electric wiring and fixtures are being replaced with new modern material. Work has commenced on installing a dry stand pipe for fire protection in the Moose Jaw, Calgary and Edmonton elevators. Driers at Prince Rupert and Saskatoon were completed and are in satisfactory operation.

Staff

Staff employed as at December 31, 1959, compared with figures at December 31, 1958, is as follows:

	1959		1958	
	Continuing Establish- ment	Casuals	Continuing Establish- ment	Casuals
Winnipeg (Head Office).....	8	—	8	—
Moose Jaw.....	32	—	31	1
Saskatoon.....	29	15	33	11
Calgary.....	33	3	33	—
Edmonton.....	32	—	32	—
Lethbridge.....	19	—	20	—
Prince Rupert.....	31	25	34	22
Repair and Reconstruction Unit.....	3	4	—	12
	187	47	191	46

Revenue and Expenditure

Revenue and expenditure for the fiscal year 1958-59 compared with the previous fiscal year were as follows:

	1958-59	1957-58
Revenue.....	\$2,112,904	\$1,826,404
Expenditure.....	1,382,451	1,358,617
Surplus.....	730,453	467,787

For the first nine months of the current fiscal year revenue was \$1,614,412, and expenditure was \$922,311.

TRADE AND COMMERCE

APPENDIX I

Table I-1.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year Ended March 31, 1959

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$	\$	\$	\$	\$
WINNIPEG					
Executive.....	68,463.75	12,842.42	7,073.69	9,909.88	98,289.74
Assistant Commissioners.....	11,499.96	1,080.00	1,681.60	343.76	14,605.32
License and Bonding.....	24,924.10	3,237.60	—	3,179.89	31,341.59
Registration.....	41,686.96	4,766.16	382.40	806.49	47,642.01
Research Laboratory.....	199,790.58	35,764.13	7,800.96	98,968.04	342,323.71
Statistics.....	97,195.00	11,037.96	1,303.33	32,719.71	142,256.00
Appeal Tribunal.....	6,660.00	299.22	—	1,367.65	8,326.87
Standards Committee.....	—	—	1,769.16	1,300.00	3,069.16
Inspection.....	647,869.01	29,653.74	5,451.96	57,955.93	740,930.64
Weighing.....	61,060.30	2,173.56	751.55	1,475.16	65,460.57
CHURCHILL					
Inspection.....	23,943.41	15.66	4,835.67	1,087.18	29,881.92
Weighing.....	14,275.92	10.34	3,607.57	693.54	18,587.37
KEEWATIN					
Inspection.....	6,710.22	—	—	5.24	6,715.46
Weighing.....	10,247.34	—	—	38.86	10,286.20
SASKATOON					
Assistant Commissioner.....	12,099.96	—	1,703.58	191.57	13,995.11
Inspection.....	39,825.53	1,237.00	—	1,166.86	42,229.39
Weighing.....	29,420.38	—	—	91.34	29,511.72
MOOSE JAW					
Inspection.....	29,132.37	1,440.00	—	1,248.58	31,820.95
Weighing.....	16,906.92	—	—	16.83	16,923.75
REGINA					
Assistant Commissioner.....	11,874.96	1,897.56	2,205.15	465.05	16,442.72
MEDICINE HAT					
Inspection.....	12,390.00	841.00	—	326.43	13,557.43
Weighing.....	9,739.34	—	—	24.90	9,764.24
LETHBRIDGE					
Inspection.....	9,158.22	—	35.00	201.85	9,395.07
Weighing.....	4,680.00	—	—	9.00	4,689.00
CALGARY					
Inspection.....	110,898.07	7,297.00	600.07	5,115.28	123,910.42
Weighing.....	50,987.43	792.00	1,812.71	433.58	54,025.72
Appeal Tribunal.....	6,660.00	987.00	—	1,251.66	8,898.66
EDMONTON					
Inspection.....	126,294.80	8,609.00	31.90	5,487.65	140,423.35
Weighing.....	16,291.19	—	—	107.60	16,398.79
Appeal Tribunal.....	6,660.00	1,170.00	106.20	877.58	8,813.78
Assistant Commissioner.....	12,099.96	1,992.00	4,084.46	323.52	18,499.94
VANCOUVER					
Inspection.....	217,558.23	8,474.71	114.80	6,086.60	232,234.34
Weighing.....	200,961.56	3,242.34	1,167.22	4,355.90	209,727.02
Registration.....	11,730.00	2,202.20	—	453.60	14,385.80
VICTORIA					
Inspection.....	10,182.40	—	18.20	5.65	10,206.25
Weighing.....	8,828.54	—	—	—	8,828.54

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Table I-1.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year ended March 31, 1959—Concluded

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$	\$	\$	\$	\$
PRINCE RUPERT					
Inspection.....	12,967.08	—	441.39	16.94	13,425.41
Weighing.....	12,258.99	—	—	65.00	12,323.99
FORT WILLIAM					
Inspection.....	834,568.97	22,950.00	8,900.57	15,055.26	881,474.80
Weighing.....	653,825.20	4,933.00	26,563.19	10,868.29	696,189.68
TORONTO					
Inspection.....	9,575.59	1,200.00	436.10	529.93	11,741.62
Weighing.....	4,680.00	—	—	4.60	4,684.60
CHATHAM					
Inspection.....	41,283.58	2,980.00	10,996.44	4,571.11	59,831.13
OTTAWA					
Inspection.....	13,020.00	—	2,981.40	169.25	16,170.65
MONTREAL					
Inspection.....	128,578.34	5,595.00	13,086.54	4,134.41	151,394.29
Weighing.....	6,435.00	1,200.00	—	605.03	8,240.03
Registration.....	18,300.00	2,400.00	—	1,195.40	21,895.40
Totals.....	3,904,199.16	182,320.60	109,942.81	275,307.58	4,471,770.15

Table I-2.—Accrued Revenue, by Point and Branch, Fiscal Year ended March 31, 1959

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
	\$	\$	\$	\$
WINNIPEG				
Executive.....	—	—	—	—
License and Bonding.....	29,055.00	—	—	29,055.00
Registration.....	28,841.58	—	6.00	28,847.58
Appeal Tribunal.....	1,509.00	—	—	1,509.00
Research Laboratory.....	—	—	2.09*	2.09
Inspection.....	354,718.57	8,615.27	3,302.70	366,636.54
Weighing.....	27,309.17	—	1,580.51	28,889.68
CHURCHILL				
Inspection.....	62,094.31	—	—	62,094.31
Weighing.....	31,641.15	—	—	31,641.15
KEEWATIN				
Inspection.....	6,086.90	—	373.88	6,460.78
Weighing.....	9,408.47	—	564.38	9,972.85
SASKATOON				
Inspection.....	26,163.67	898.14	—	27,061.81
Weighing.....	13,224.19	—	—	13,224.19
MOOSE JAW				
Inspection.....	9,379.08	347.10	332.37	10,058.55
Weighing.....	4,831.96	—	157.50	4,939.46
MEDICINE HAT				
Inspection.....	12,942.68	192.39	—	13,135.07
Weighing.....	9,190.91	—	104.34	9,295.25

TRADE AND COMMERCE

**Table I-2.—Accrued Revenue, by Point and Branch, Fiscal Year ended March 31, 1959—
Concluded**

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
	\$	\$	\$	\$
LETHBRIDGE				
Inspection.....	1,714.63	78.97	—	1,793.60
Weighing.....	240.34	—	—	240.34
CALGARY				
Inspection.....	115,385.92	2,352.43	461.50	118,199.85
Weighing.....	19,350.66	—	460.88	19,811.54
Appeal Tribunal.....	1,509.00	—	—	1,509.00
EDMONTON				
Inspection.....	90,201.93	1,741.92	875.92	92,819.77
Weighing.....	5,632.60	—	355.01	5,987.61
Appeal Tribunal.....	1,008.00	—	—	1,008.00
VANCOUVER				
Inspection.....	309,084.32	9,861.07	541.69	319,487.08
Weighing.....	236,996.56	—	268.90	237,265.46
Registration.....	13,112.42	—	—	13,112.42
VICTORIA				
Inspection.....	4,230.10	38.41	—	4,268.51
Weighing.....	3,648.58	—	—	3,648.58
PRINCE RUPERT				
Inspection.....	23,684.72	196.71	88.44	23,969.87
Weighing.....	16,988.43	—	149.85	17,138.28
FORT WILLIAM				
Inspection.....	678,076.12	8,595.07	2,407.97	689,079.16
Weighing.....	513,014.06	—	5,187.66	518,201.72
TORONTO				
Inspection.....	5,452.23	73.50	130.76	5,656.49
Weighing.....	4,680.00	—	—	4,680.00
CHATHAM				
Inspection.....	44,575.70	650.71	1,864.44**	47,090.85
MONTREAL				
Inspection.....	13,299.99	681.91	826.19	14,808.09
Weighing.....	65.25	—	—	65.25
Registration.....	10,951.73	—	—	10,951.73
Appeal Fees.....	3.00	—	—	3.00
Totals.....	2,739,302.93	34,323.60	20,042.98	2,793,669.51

(a) Details in Table I-4.

*Refund of Previous Year's Expenditure.

**Includes \$5.72 Refund of Previous Year's Expenditure.

BOARD OF GRAIN COMMISSIONERS

Table I-3.—Accrued Revenue and Net Expenditure, by Points and Branches, Fiscal Year ended March 31, 1959

	Inspection	Weighing	Appeal Tribunals	Registra- tion	License and Bonding	Statistics	Research Laboratory	Grain Standards Com- mittees	Adminis- tration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
REVENUE										
Winnipeg.....	366,636.54	28,889.68	1,509.00	28,847.58	29,055.00	—	2.09	—	—	454,939.89
Churchill.....	62,094.31	31,641.15	—	—	—	—	—	—	—	93,735.46
Keewatin.....	6,460.78	9,972.85	—	—	—	—	—	—	—	16,433.63
Saskatoon.....	27,061.81	13,224.19	—	—	—	—	—	—	—	40,286.00
Moose Jaw.....	10,058.55	4,989.46	—	—	—	—	—	—	—	15,048.01
Regina.....	—	—	—	—	—	—	—	—	—	—
Medicine Hat.....	13,135.07	9,295.25	—	—	—	—	—	—	—	22,430.32
Lethbridge.....	1,793.60	240.34	—	—	—	—	—	—	—	2,033.94
Calgary.....	118,199.85	19,811.54	1,509.00	—	—	—	—	—	—	139,520.39
Edmonton.....	92,819.77	5,987.61	1,098.00	—	—	—	—	—	—	99,815.38
Vancouver.....	319,487.08	237,265.46	—	13,112.42	—	—	—	—	—	569,864.96
Victoria.....	4,268.51	3,648.58	—	—	—	—	—	—	—	7,917.09
Prince Rupert.....	23,969.87	17,138.28	—	—	—	—	—	—	—	41,108.15
Fort William.....	689,079.16	518,201.72	—	—	—	—	—	—	—	1,207,280.88
Toronto.....	—	4,680.00	—	—	—	—	—	—	—	10,336.49
Chatham.....	47,090.85	—	—	—	—	—	—	—	—	47,090.85
Ottawa.....	—	65.25	—	—	—	—	—	—	—	—
Montreal.....	14,808.09	—	3.00	10,951.73	—	—	—	—	—	25,828.07
Totals.....	1,802,620.33	905,051.36	4,029.00	52,911.73	29,055.00	—	2.09	—	—	2,793,669.51

Table I-3.—Accrued Revenue and Net Expenditure, by Points and Branches, Fiscal Year ended March 31, 1959—Concluded

	Inspection	Weighing	Appeal Tribunals	Registra- tion	License and Bonding	Statistics	Research Laboratory	Grain Standards Com- mittees	Adminis- tration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
EXPENDITURE										
Winnipeg.....	740,930.64	65,460.57	8,326.87	47,642.01	31,341.59	142,256.00	342,323.71	3,069.16	112,895.06	1,494,245.61
Churchill.....	29,881.92	18,587.37	—	—	—	—	—	—	—	48,469.29
Keewatin.....	6,715.46	10,286.20	—	—	—	—	—	—	—	17,001.66
Saskatoon.....	42,229.39	29,511.72	—	—	—	—	—	—	13,995.11	85,736.22
Moose Jaw.....	31,820.95	16,923.75	—	—	—	—	—	—	—	48,744.70
Medicine Hat.....	13,557.43	9,764.24	—	—	—	—	—	—	—	23,321.67
Regina.....	—	—	—	—	—	—	—	—	16,442.72	16,442.72
Lethbridge.....	9,395.07	4,689.00	—	—	—	—	—	—	—	14,084.07
Calgary.....	123,910.42	54,025.72	8,898.66	—	—	—	—	—	—	186,834.80
Edmonton.....	140,423.35	16,398.79	8,813.78	—	—	—	—	—	—	184,135.86
Vancouver.....	232,234.34	209,727.02	—	14,385.80	—	—	—	—	18,499.94	456,347.16
Victoria.....	10,206.25	8,828.54	—	—	—	—	—	—	—	19,034.79
Prince Rupert.....	13,425.41	12,323.99	—	—	—	—	—	—	—	25,749.40
Fort William.....	881,474.80	696,189.68	—	—	—	—	—	—	—	1,577,664.48
Toronto.....	11,741.62	4,684.60	—	—	—	—	—	—	—	16,426.22
Chatham.....	59,831.13	—	—	—	—	—	—	—	—	59,831.13
Ottawa.....	16,170.65	—	—	—	—	—	—	—	—	16,170.65
Montreal.....	151,394.29	8,240.03	—	21,895.40	—	—	—	—	—	181,529.72
Totals.....	2,515,343.12	1,165,641.22	26,039.31	83,923.21	31,341.59	142,256.00	342,323.71	3,069.16	161,832.83	4,471,770.15

BOARD OF GRAIN COMMISSIONERS

Table I-4.—Summary of Operations by Branches, Fiscal Year ended March 31, 1959

	Inspection	Weighing	Appeal Tribunals	Registra- tion	License and Bonding	Statistics	Research Laboratory	Grain Standards Com- mittees	Adminis- tration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
REVENUE										
Fees.....	1,757,090.87	896,222.33	4,029.00	52,905.73	29,055.00	—	—	—	—	2,739,302.93
Samples Sold.....	34,323.60	—	—	—	—	—	—	—	—	34,323.60
Other Revenue:										
Overtime Refunded	7,728.86	8,746.07	—	—	—	—	—	—	—	16,474.93
Express Charges	3,457.00	—	—	—	—	—	—	—	—	3,457.00
Jury Fees	—	79.50	—	—	—	—	—	—	—	79.50
Fines	—	—	—	—	—	—	—	—	—	—
Refund of Previous	—	—	—	—	—	—	—	—	—	—
Year's Expenses	5.72	—	—	—	—	—	2.09	—	—	7.81
Miscellaneous	14.28	3.46	—	6.00	—	—	—	—	—	23.74
Revenue.....										
Totals.....	1,802,620.33	905,051.36	4,029.00	52,911.73	29,055.00	—	2.09	—	—	2,793,669.51
EXPENDITURE										
Salaries.....	2,273,955.82	1,100,598.11	19,980.00	71,716.96	24,924.10	97,195.00	199,790.58	—	116,038.59	3,904,199.16
Rent.....	90,293.11	12,351.24	2,456.22	9,368.36	3,237.60	11,037.96	35,764.13	—	17,811.98	182,320.60
Travel.....	47,930.04	33,902.24	106.20	382.40	—	1,303.33	7,800.96	1,769.16	16,748.48	109,942.81
General Expenses.....	85,752.14	12,302.39	3,468.31	1,618.26	1,268.23	26,370.49	97,297.43	1,300.00	9,555.60	238,932.85
Printing and Stationery.....	17,412.01	6,487.24	28.58	837.23	1,911.66	6,349.22	1,670.61	—	1,678.18	36,374.73
Totals.....	2,515,343.12	1,165,641.22	26,039.31	83,923.21	31,341.59	142,256.00	342,323.71	3,069.16	161,832.83	4,471,770.15

APPENDIX J

Regulations

Regulations in effect December 31, 1959, made in accordance with the provisions of the Canada Grain Act

Regulation
No.

- 1 Registration and Cancellation of Terminal Elevator Warehouse Receipts.
- 2 Registration and Cancellation of Eastern Warehouse Receipts and Transfer Receipts.
- 3 Plans re Terminal and Eastern Elevators.
- 4 Cleaning of Grain and Bins.
- 5 Off Grades for Western Grain.
- 6 Off Grades for Eastern Grain.
- 7 Grades of Screenings.
- 8 Inspection of Samples taken other than at an Inspection Point.
- 9 Appeals from Inspecting Officers to Grain Appeal Tribunals.
- 10 Delivery of Grain to Ocean Vessels at Montreal, Quebec.
- 11 Delivery of Grain to Ocean Vessels at West Saint John, N.B.
- 12 Delivery of Grain to Ocean Vessels at East Saint John, N.B.
- 13 Delivery of Grain to Ocean Vessels at Halifax, N.S.
- 14 Enforcement of Lien by Sale of Grain.
- 15 Drying of Grain.
- 16 Fees.
- 17 Records, Reports and Returns.
- 18 Procedure, Country Elevators.
- 19 Receipt for Grain Delivered to Private Country Elevators and Mill Elevators.
- 20 Maximum Tariff of Charges, Eastern Elevators.
- 21 Maximum Tariff of Charges and Shrinkage Allowance, Country Elevators.
- 22 Maximum Tariff of Charges, Terminal Elevators.
- 23 Applications for Licenses, and Terms and Conditions under which Licences are issued.
- 24 Storage in Transit of Grain Grown Outside Canada.
- 25 Tickets and Receipts—Country Elevators.
- 26 Grain Treated with Poisonous Materials.
- 27 Shipment of Infested Grain.

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